

1257-2

# BONNEY VISES and WRENCHES



BONNEY

TRADE MARK

CATALOG N° 21

ESTABLISHED 1876





BONNEY



Established 1876

Incorporated 1901

# Bonney Vise & Tool Works

Incorporated

Allentown · Pennsylvania · U · S · A

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Catalogue No. Twenty-one

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A Reference Book on Vises  
and Wrenches of All Kinds

GENERAL TRADE MARKS  
REGISTERED IN U. S. PATENT OFFICE



"BONNEY"



*Other Trade Marks Referring to Special  
Tools are Not Shown Here*

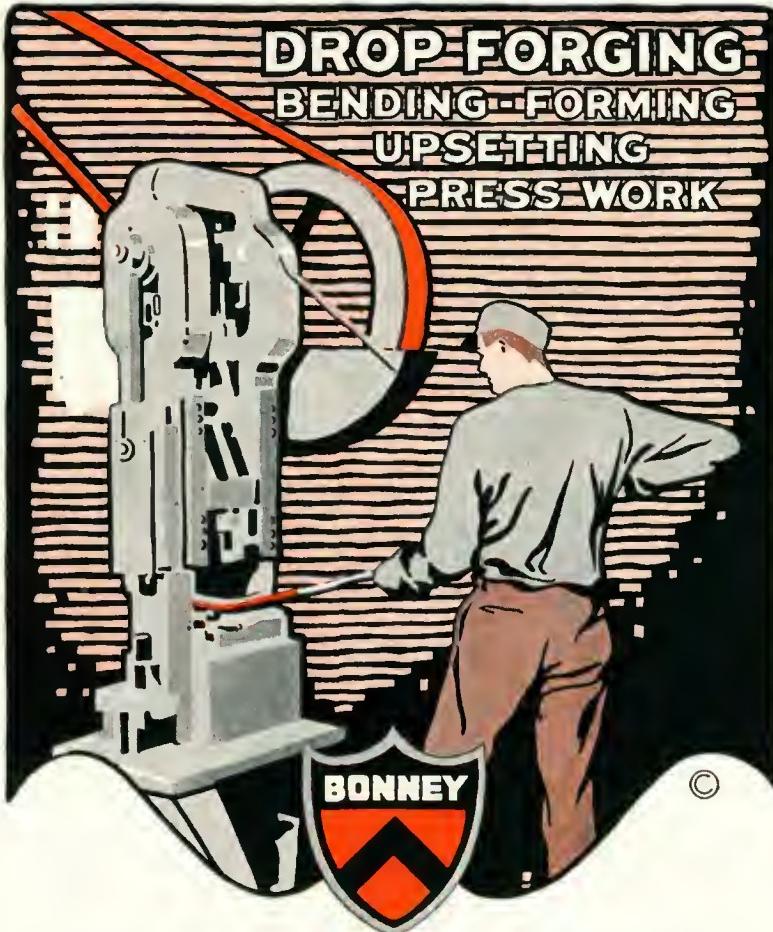
Philadelphia Office, 405-406 Stephen Girard Building  
Factory Cable Address, "Bonnevise," Allentown, Western Union Code

CATALOG TWENTY-ONE

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BONNEY VISE & TOOL WORKS, Inc.

**DROP FORGING  
BENDING-FORMING  
UPSETTING  
PRESS WORK**



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**BONNEY VISE & TOOL WORKS  
ALLENTOWN, PA.**

MEMBERS  
AMERICAN HARDWARE MANUFACTURERS' ASSOCIATION  
and  
AUTOMOTIVE EQUIPMENT ASSOCIATION







## Terms

Invoices payable only in New York City par funds with no allowance for exchange.

All goods delivered F. O. B. ears Allentown without charge for packing, except special packing for export.

An additional charge will be made on all shipments direct from factory to dealer's customer, also all parcel post or small express shipments. This charge will not apply on orders for repairs or parts.

A handling charge of 10% will be made on all goods returned except when, in our judgment, the goods are defective.

Any promises or commitments in relation to quotations or orders are subject to any acts or demands of the United States Government, and to strikes, fires, accidents, freight embargoes, car shortage, labor shortage and all other causes beyond our control, and no liability will be incurred by us for damages resulting from delay or failure in deliveries due to any of said causes.

Printed matter and electrotypes of stock goods furnished customers without charge.

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List prices used in this catalog should not be construed as resale prices, because there may be instances where, owing to present conditions, it may be found necessary to equal or exceed the prices herein shown.

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BONNEY VISE & TOOL WORKS, INC.

ALLENTEW, PA., U. S. A.



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## BONNEY STILLSON WRENCHES

Practically every car owner and every repairman has use for one or more sizes of Stillson Wrenches



Jaw

Nut

Frame

Wooden Handle

**BONNEY STILLSON WRENCHES** are all forged from the highest grade tool steel, and are interexchangeable with similar wrenches. Each wrench is thoroughly tested and is absolutely warranted in every way. 6" to 18" sizes inclusive, furnished in wood or steel handle. 24" 36" and 48" sizes steel handle only.

### PRICE LIST.

Length, open.....	6	8	10	12	14	18	24	36	48
Takes pipe.....	3 $\frac{1}{8}$ -1 $\frac{1}{2}$	1 $\frac{1}{8}$ -3 $\frac{1}{4}$	1 $\frac{1}{8}$ -1	1 $\frac{1}{4}$ -1 $\frac{1}{2}$	1 $\frac{1}{4}$ -1 $\frac{1}{2}$	1 $\frac{1}{4}$ -2	1 $\frac{1}{4}$ -2 $\frac{1}{2}$	1 $\frac{1}{4}$ -3 $\frac{1}{2}$	1-5
Price each.....	\$2.00	\$2.25	\$2.50	\$3.00	\$3.50	\$5.00	\$7.25	\$13.50	\$20.00
Extra jaws.....	.75	.80	.85	1.00	1.15	1.75	2.25	4.35	7.50
Extra frames.....	.38	.42	.50	.60	.60	.75	.95	1.70	2.20
Steel handles.....	.95	1.00	1.00	1.35	1.50	2.25	3.50	7.00	10.50
Nuts.....	.12	.15	.20	.30	.30	.35	.55	1.10	1.50
Springs.....	.10	.10	.10	.10	.10	.10	.11	.13	.13
No. of springs each wrench.....	1	1	3	3	3	3	3	1	1
Frame pins.....	.03	.03	.04	.04	.04	.04	.04	.05	.05
Spring pins.....	.01	.01	.02	.02	.02	.02	.02	.02	.02
End nuts.....	.15	.15	.20	.20	.20	.20	.....	.....	.....
Ferrule.....	.10	.10	.12	.15	.15	.....	.....	.....	.....

All sizes of Stillson Wrenches from 6" to 14", inclusive, are packed in individual cartons, six cartons in a container.

### EXPORT PACKING OF STILLSON WRENCHES

Size	No. to Case	Net Wt. lbs.	Gross Wt. lbs.	Measurements
6"	72	24	28	13 $\frac{3}{8}$ x 7 $\frac{1}{2}$ x 8 $\frac{1}{8}$
8"	72	47	52	16 x 8 $\frac{1}{2}$ x 9 $\frac{1}{2}$
10"	72	108	122	22 $\frac{1}{4}$ x 12 $\frac{1}{2}$ x 14
12"	72	192	212	24 $\frac{1}{2}$ x 14 x 14
14"	72	204	224	24 $\frac{1}{2}$ x 15 $\frac{3}{4}$ x 15 $\frac{3}{4}$
18"	54	243	267	21 $\frac{1}{2}$ x 15 x 18
24"	24	200	221	27 x 13 x 15 $\frac{1}{2}$
36"	6	90	100	35 x 8 $\frac{1}{2}$ x 6 $\frac{1}{4}$
48"	6	144	160	45 x 10 $\frac{1}{2}$ x 7 $\frac{1}{4}$

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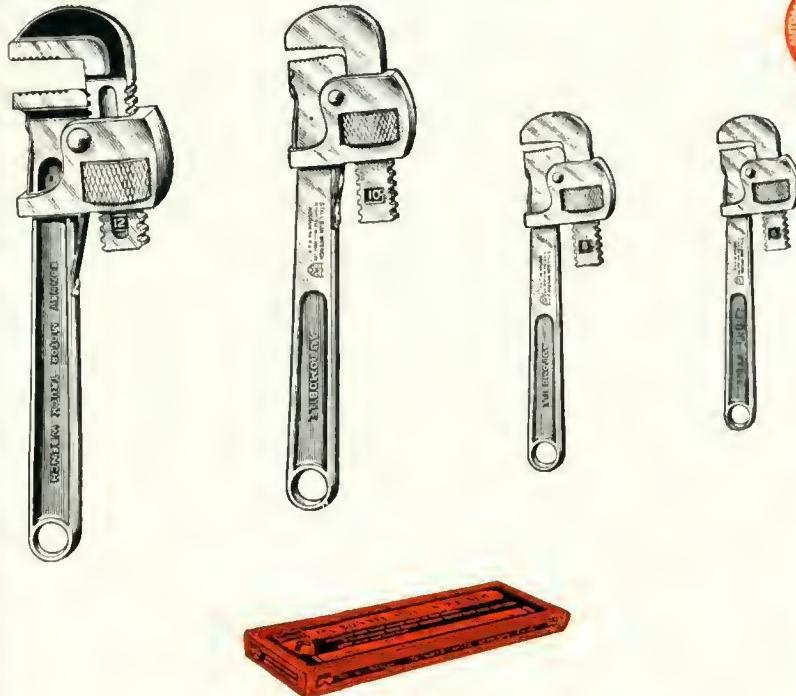
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## BONNEY MOTOR STILLSONS

Three Special Automobile Models and a 12" Motor-Truck Model



Packed in individual cartons, as illustrated, 6 dozen of a size to a case

Bonney Automobile Stillsons have extra thin, closely milled jaws with fine teeth, and are the only wrenches of this type designed especially for use on automobiles and finely finished machinery.

Owners of automobiles and motor-cycles, also repairmen, are quick to see and appreciate the fact that these are not ordinary tools.

We have a special descriptive folder on these wrenches.

	Takes Round Part	Length Open	Price Each
6" Motor-Cycle Stillson Wrench	$\frac{1}{8}$ to $\frac{5}{8}$	6"	\$2.00
8" Automobile Stillson Wrench	$\frac{1}{8}$ to $\frac{7}{8}$	8"	2.25
10" Automobile Stillson Wrench	$\frac{1}{8}$ to $1\frac{1}{4}$	10"	2.50
12" Motor-Truck Stillson Wrench (Heavy Jaw) .....	$\frac{1}{4}$ to $1\frac{1}{2}$	12"	3.00

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## BONNEY ADJUSTABLE "S" NUT WRENCH

This is a most useful wrench and should be in every autoist's kit. With this wrench it is possible to adjust nuts where many other wrenches fail.



PATENTED

BONNEY Adjustable "S" NUT Wrenches are designed, primarily, for utility, but in their construction every care has been taken to produce not only strength and durability, but also balance and beauty. The sliding jaw is a drop-forging and the long or fixed jaw is made of the highest grade of malleable iron. All parts are interchangeable. The handle is finished in bright black enamel and the jaws are polished.

### PRICE LIST

Size, inches	6	8	10	12	14
Opens to.....	$\frac{3}{4}$ "	1"	$1\frac{3}{8}$ "	$1\frac{5}{8}$ "	2"
Price per doz. ....	\$8.00	\$10.00	\$12.00	\$18.00	\$24.00
Weight, per doz. ...	5 lbs.	12 lbs.	21 lbs.	32 lbs.	56 lbs.

### EXPORT PACKING OF ADJUSTABLE "S" NUT WRENCHES

Size, in.	No. to case	Net Wt. lbs.	Gross Wt. lbs.	Measurements
6	24 doz.	120	141	$22\frac{1}{2} \times 10 \times 16$
8	24 "	288	333	$35\frac{1}{2} \times 16\frac{1}{2} \times 13$
10	15 "	315	360	$35\frac{1}{2} \times 16\frac{1}{2} \times 13$
12	6 "	192	230	$24\frac{1}{4} \times 15\frac{1}{4} \times 15\frac{1}{4}$
14	3 "	168	203	$32 \times 17 \times 9$

### NET PRICE LIST OF PARTS FOR ADJUSTABLE "S" NUT WRENCHES

Size, inches	6	8	10	12	14
Jaw.....	\$0.15	\$0.17	\$0.20	\$0.30	\$0.40
Thumb Nut.....	.06	.06	.10	.11	.12
Screw for Thumb Nut.....	.03	.03	.03	.03	.03

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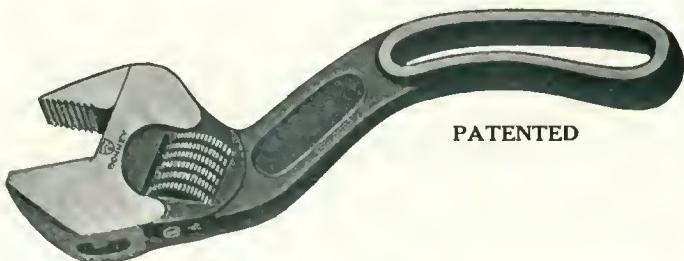
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## BONNEY ADJUSTABLE "S" PIPE WRENCH



BONNEY Adjustable "S" Pipe Wrenches are similar in material and finish to the Adjustable "S" Nut Wrenches described on the opposite page. The sliding jaw, however, is milled with teeth correctly cut to grip both pipe and round iron, and the long jaw is constructed on an angle of correct degree to prevent locking of the wrench when used on particularly difficult work. As in the case of the Adjustable "S" NUT Wrench the parts are interchangeable and the milled jaw can be replaced without difficulty.

## PRICE LIST

Size, inches	6	8	10	12	14
Grips.....	$\frac{1}{8}$ Wire to $\frac{1}{2}$ pipe	$\frac{1}{8}$ Wire to $\frac{1}{2}$ pipe	$\frac{1}{8}$ Wire to 1 pipe	$\frac{1}{8}$ Wire to $1\frac{1}{4}$ pipe	$\frac{1}{8}$ Wire to $1\frac{1}{2}$ pipe
Price, per doz..	\$8.00	\$10.00	\$12.00	\$18.00	\$24.00
Weight per doz..	5 lbs.	13 lbs.	22 lbs.	33 lbs.	57 lbs.

## EXPORT PACKING OF ADJUSTABLE "S" PIPE WRENCHES

Size	No. to case	Net Wt., lbs.	Gross Wt., lbs.	Measurements
6	24 doz.	120	141	$22\frac{1}{2} \times 10 \times 16$
8	24 "	312	357	$35\frac{3}{4} \times 16\frac{1}{2} \times 13$
10	15 "	330	375	$35\frac{3}{4} \times 16\frac{1}{2} \times 13$
12	6 "	198	236	$24\frac{1}{4} \times 15\frac{3}{4} \times 15\frac{3}{4}$
14	3 "	171	206	32 x 17 x 9

NET PRICE LIST OF PARTS FOR ADJUSTABLE "S"  
PIPE WRENCHES

Size, inches	6	8	10	12	14
Jaw.....	\$0.15	\$0.17	\$0.20	\$0.30	\$0.40
Thumb Nut ..	.06	.06	.10	.11	.12
Screw for Thumb Nut.	.03	.03	.03	.03	.03



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## BONNEY COMBINATION PIPE AND NUT WRENCH



Nos. 43 and 44, Short Nut

This wrench is strongly and carefully made, is thoroughly tested in every way and is warranted perfect in material and workmanship. The long jaw and shank is a solid drop-forging. The slide is of highest grade malleable iron and the toggle is drop-forged of special analysis tool steel.

All parts are properly hardened and are interchangeable with BONNEY and similar wrenches. It is especially adapted to the uses of Farmers and Oil-well Operators, to whom the added weight of separate tools would be particularly undesirable.

### LIST PRICE, No. 43, POLISHED SHORT NUT

Size	Capacity	Price per doz.	Weight per doz.
8"	1" to 3"	\$25.00	15 lbs.
10"	1" " 1"	28.00	25 "
12"	1" " 1 3/4"	34.00	36 "
15"	1" " 2 1/4"	45.00	52 "
18"	1" " 3"	82.00	81 "

All sizes except 18 in. packed  $\frac{1}{2}$  doz. in a wooden box.

### List Price, No. 44, Black Same As Above

COMBINATION PIPE AND NUT WRENCHES ARE PACKED FOR EXPORT AS FOLLOWS:

Size	No. to Case	Net Wt. lbs.	Gross Wt. lbs.	Measurements
8"	6 doz.	96	115	18 x 8 x 20
10"	6 "	162	188	32 x 12 x 9
12"	6 "	240	275	35 x 14 x 10
15"	4 "	216	256	29 x 18 x 12
18"	2 "	180	220	38 1/4 x 21 x 8 1/4



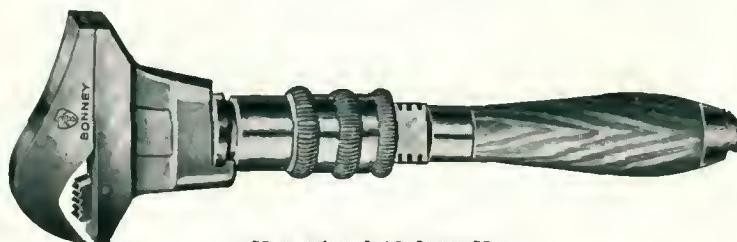
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## BONNEY COMBINATION PIPE AND NUT WRENCH



Nos. 45 and 46, Long Nut

Combination Wrench No. 46 is exactly the same in every particular as No. 44, with the one exception that the adjusting nut is made in the form of a knurled sleeve instead of the short nut. The knurled sleeve forms a covering for the screw on which the adjusting nut operates and thus protects the thread from bruises and other damage which might easily happen to the screw, by either dropping the wrench on stone or cement or by dropping some heavy article on the wrench.

### LIST PRICE, No. 45, POLISHED LONG NUT

Size	Capacity	Price per doz.	Weight per doz.
8"	1" to $\frac{3}{4}$ "	\$27.00	16 lbs.
10"	$\frac{3}{4}$ " " 1"	30.00	25 "
12"	$\frac{3}{4}$ " " $1\frac{1}{4}$ "	36.00	38 "
15"	$\frac{3}{4}$ " " $2\frac{1}{4}$ "	48.00	55 "
18"	$\frac{3}{4}$ " " 3"	87.00	84 "

All sizes except 18 in. packed  $\frac{1}{2}$  doz. in a wooden box.

### List Price, No. 46, Black Same As Above

COMBINATION PIPE AND NUT WRENCHES PACKED  
FOR EXPORT AS FOLLOWS:

Size	No. to Case	Net Wt. lbs.	Gross Wt. lbs.	Measurements
8"	6 doz.	96	115	18 x 8 x 20
10"	6 "	162	188	32 x 12 x 9
12"	6 "	240	275	35 x 14 x 10
15"	4 "	216	256	29 x 18 x 12
18"	2 "	180	220	38 $\frac{1}{4}$ x 21 x 8 $\frac{1}{2}$



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## BONNEY "HERCULES" SCREW WRENCHES

Trade Mark Registered



Bonney Hercules Screw Wrenches are made of the best grade of steel and malleable iron. The long jaw is a drop-forging and the sliding jaw and handle frame are malleable iron. All parts are carefully machined to an accurate fit and are interchangeable. The jaws are case hardened to withstand wear.

These wrenches are warranted against any defects in workmanship and material and against breakage from any cause, except abuse.

They are wrapped one-half dozen to a bundle in sizes 6" to 12", inclusive. 15" and 18" are wrapped one-third in a bundle and the 21" are wrapped one in a bundle.

### PRICE LIST AND DOMESTIC PACKING

Size.....	6"	8"	10"	12"	15"	18"	21"
Opens .....	7 $\frac{1}{2}$ "	11 $\frac{1}{4}$ "	13 $\frac{1}{4}$ "	21 $\frac{1}{4}$ "	23 $\frac{3}{4}$ "	31 $\frac{1}{8}$ "	41 $\frac{1}{4}$ "
Weight per doz....	8 $\frac{1}{2}$ lbs.	15	24	39	57	82	104
Weight per case....	58	102	165	265	190	184	124
Black, per doz.....	\$15.00	\$18.00	\$22.00	\$28.00	\$38.00	\$48.00	\$58.00

6", 8", 10", 12" packed 6 doz. to case.  
15" " 3 " " "

18" packed 2 doz. to case.  
21" " 1 " " "

### EXPORT PACKING

Size	Quantity	Net Wt., lbs.	Gross Wt., lbs.	Measurements
6"	6 doz.	51	61	17 x 8 $\frac{5}{8}$ x 7 $\frac{1}{4}$
8"	6 "	90	110	21 $\frac{1}{8}$ x 10 $\frac{1}{8}$ x 8 $\frac{1}{4}$
10"	6 "	144	175	29 $\frac{3}{8}$ x 12 x 9 $\frac{3}{4}$
12"	6 "	234	275	26 x 14 $\frac{1}{8}$ x 11
15"	3 "	171	200	19 $\frac{1}{4}$ x 18 x 9 $\frac{3}{4}$
18"	2 "	164	184	22 x 13 $\frac{1}{2}$ x 10
21"	1 "	104	124	24 $\frac{1}{4}$ x 14 x 6 $\frac{1}{2}$

### BONNEY AUTOMOBILE WRENCH



This wrench is strongly constructed for automobile and motor boat use. It is made of a drop forged steel long jaw and a malleable iron sliding jaw with steel adjusting nut. The overall length is 9 $\frac{1}{2}$ " and opening 2". Jaws are 1 $\frac{1}{4}$ " wide and  $\frac{3}{8}$ " thick. Black and polished finish. Packed 1 gross in a case; weight 156 lbs. Price per dozen, \$12.00.



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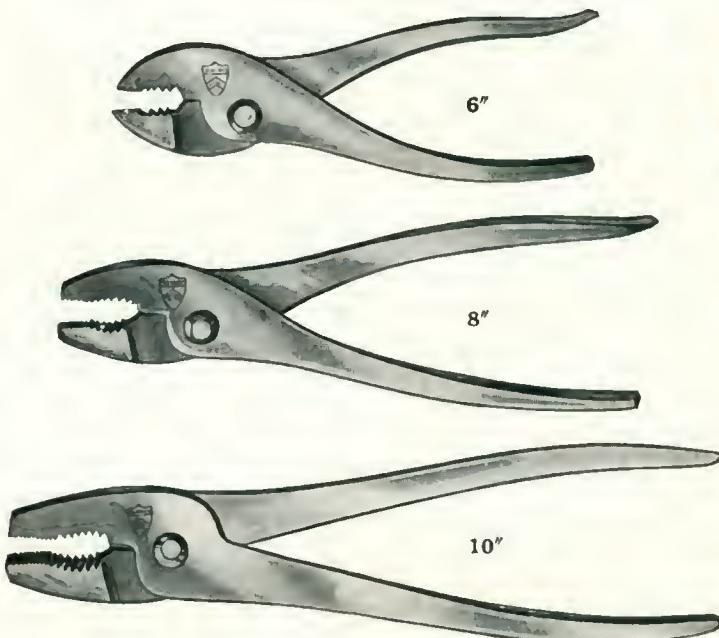
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## BONNEY COMBINATION PLIERS DROP FORGED



Bonney Combination Pliers are drop-forged from high carbon steel, are carefully machined, hardened and polished. They are made in two finishes; Polished and Nickel Plated, and Blued. Each Plier combines a regular plier, wire cutter and screw driver.

The opening of the jaw can be enlarged to a very wide capacity by turning the handle slightly and by sliding the rivet from one hole to the other.

These pliers are used generally by mechanics of all kinds. They have become absolutely indispensable about an automobile or motor-cycle.

They are packed in individual cardboard cartons.

### PRICE LIST

Size	Capacity	Polished and Nickel Plated	Blued
5"	1/2" pipe.....	\$10.00	\$9.00
6"	3/4" pipe.....	15.00	13.50
8"	1 1/4" pipe.....	18.00	16.00
10"	1 1/4" pipe.....	21.00	18.00

### PACKED FOR EXPORT

Size	No. to case	Net Weight, lbs.	Gross Wt., lbs.	Measurements
5"	24 doz.	72	84	14 x 6 x 6
6"	24 "	160	195	30 x 17 x 9 1/4
8"	24 "	198	240	30 x 10 1/4 x 19
10"	12 "	156	190	24 x 12 1/2 x 17



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## BONNEY "THIN" WRENCHES

STAMPED STEEL



Bonney "Thin" Wrenches are packed in sets as follows:

- Set 1.—Five Wrenches, one each, 110-150, ten openings, from  $\frac{1}{4}$ " to 1"  
semi-finished, packed in canvas case. Price per set ..... \$1.25  
 Set 2.—Same as No. 1, packed in cardboard box. Price per set ..... 1.00  
 Weight per set either in cardboard box or canvas case, 1 lb. 6 oz.  
 Packed 1 gross sets in a case.

Bonney "Thin" Wrenches are especially designed for Lock Nuts, Cheek Nuts, and for Automobile use. They are stamped from special analysis steel and are hardened all over. They are made in Semi-finished, with polished heads.

No.	Openings Inches	Length Inches	Weight per doz.	Price each Semi-finished
110	$\frac{1}{4}$ & $\frac{5}{16}$	$4\frac{3}{8}$	11 oz.	\$0.10
120	$\frac{3}{8}$ & $\frac{1}{2}$	5	1 lb. 7 oz.	.14
130	$\frac{1}{2}$ & $\frac{9}{16}$	$6\frac{1}{4}$	2 " 3 "	.18
140	$\frac{5}{8}$ & $\frac{3}{4}$	$7\frac{3}{4}$	5 " 1 "	.25
150	$\frac{7}{8}$ & 1	$9\frac{5}{8}$	6 " 5 "	.33

Packed 1 gross in a case.

## EXPORT PACKING OF BONNEY "THIN" WRENCHES

No. of sets to case	Net Weight	Gross Weight	Measurements
100	138 lbs.	173 lbs.	24 x 15 x 15

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DESCRIPTION OF FINISHES  
BONNEY DROP-FORGED WRENCHES



UNFINISHED Wrench Forgings are milled only, not hardened.



SEMI-FINISHED Wrench Forgings are milled, hardened, the body finished in a pleasing blaek enamel, and ends are polished.

We particularly recommend and suggest this finish.

In ordering, be sure to speefy finish desired. When no finish is speefied, we will ship Semi-finished Wrenches.



FINISHED Wrench Forgings are milled, polished all over, case hardened, given a black satin finish and laequerred, heads bright.

Special millings to other standards and openings *not* listed, to order.



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**BONNEY  
DROP-FORGED  
WRENCHES**

500 502 504

31 29

27 25 23 21

**THE BUSY LITTLE CLERK**

**BONNEY No. 60**

Drop-Forged Wrench Assortment contains the following drop-forged wrenches, which have been found to be the sizes and designs for which there is the greatest demand.

**GENERAL PURPOSE WRENCHES**

22 $\frac{1}{2}$ ° Angle

Quantity	No.	Openings Finished Inches	Extreme Length Inches	Price Each Special Semi- Fin.	Total
3	500	$\frac{3}{8}$ & $\frac{1}{2}$	6 $\frac{1}{4}$	\$0.27	\$0.81
3	502	$\frac{5}{8}$ & $\frac{3}{4}$	8 $\frac{1}{4}$	.43	1.29
3	504	$\frac{7}{8}$ & 1	10 $\frac{5}{8}$	.70	2.10 \$1.20

**ENGINEERS' WRENCHES**



Quantity	No.	For U. S. Standard Nuts; Size Bolts	Openings Milled	Extreme Length	Price Each Semi- Fin.	Total
3	21	$\frac{1}{4}$ & $\frac{3}{8}$	$\frac{1}{8}$ & $\frac{1}{2}$	3 $\frac{1}{4}$	\$0.17	\$0.51
3	23	$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{1}{8}$ & $\frac{1}{2}$	4	.21	.63
3	25	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{1}{8}$ & $\frac{1}{2}$	4 $\frac{1}{8}$	.25	.75
3	27	$\frac{5}{8}$ & $\frac{3}{4}$	$\frac{1}{8}$ & $\frac{1}{2}$	5 $\frac{1}{8}$	.31	.93
3	29	$\frac{3}{4}$ & $\frac{7}{8}$	$\frac{1}{8}$ & $\frac{1}{2}$	6 $\frac{1}{8}$	.37	1.11
3	31	$\frac{7}{8}$ & 1	$\frac{1}{8}$ & $\frac{1}{2}$	7 $\frac{1}{4}$	.45	1.35
3	34	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{1}{8}$ & $\frac{1}{2}$	9 $\frac{3}{4}$	.68	2.04 \$7.32
30						\$11.52

All wrenches are double-head. The openings of the General Purpose Wrenches are inclined at an angle of 22 $\frac{1}{2}$  degrees, while those of the Engineers' Wrenches are inclined to a 15-degree angle.

Each wrench is hardened and the ends are ground and polished. The bodies are finished in dead-black enamel.

The display board is designed to hold three wrenches of each size, a total of thirty wrenches. The number is found at the side of the hooks provided for each size.

Size of display board, 7 $\frac{1}{2}$  x 26 inches. Each assortment of thirty wrenches and display board in a separate box. Refills for the display boards may be purchased separately.

Shipping weight of display board and thirty wrenches, 20 pounds. Shipping weight of refills, thirty wrenches, 15 pounds.

Price, Assortment No. 60, complete . . . . . \$12.50  
Price, Refill 30 Wrenches, without board . . . 11.52

Packed in units of six



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## A. L. A. M. AND S. A. E. SETS DROP FORGED



Set D, A. L. A. M.

Sets 5 and 5S, A. L. A. M. -  
and S. A. E.

**SET D**—Contains 5 Wrenches, for A. L. A. M. Standard Nuts and Cap Screws, one each of the following:

No.	For A. L. A. M. Standard Nuts and Cap Screws, Size of Bolts, or Cap Screws	Openings Finished, Inches	Extreme Length, Inches	Semi-finished	No.
500	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{3}{8}$ & $\frac{1}{2}$	$6\frac{1}{4}$	\$0.27	500
502A	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{9}{16}$ & $\frac{11}{16}$	$8\frac{1}{4}$	.43	502A
503	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{3}{4}$ & $\frac{7}{8}$	$9\frac{1}{4}$	.55	503
504A	$\frac{5}{8}$ & $\frac{11}{16}$	$\frac{13}{16}$ & 1	$10\frac{3}{8}$	.70	504A
505C	$\frac{3}{4}$ & $\frac{7}{8}$	$1\frac{1}{8}$ & $1\frac{1}{4}$	12	1.00	505C

Packed one set in cardboard box, \$2.95; one set in wooden box, \$3.11; one set in canvas roll, \$3.40.

**SET 5**—Contains 5 Straight Bar Wrenches, with 15° Angle, for A. L. A. M. Standard Nuts and Cap Screws:

No.	For A. L. A. M. Standard Nuts and Cap Screws, Size of Bolts, or Cap Screws	Openings Finished, Inches	Extreme Length, Inches	Semi-finished	No.
723A	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{3}{8}$ & $\frac{1}{2}$	4	\$0.21	723A
27C	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{9}{16}$ & $\frac{11}{16}$	$5\frac{7}{8}$	.31	27C
731A	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{3}{4}$ & $\frac{7}{8}$	$7\frac{3}{4}$	.45	731A
33C	$\frac{5}{8}$ & $\frac{11}{16}$	$\frac{13}{16}$ & 1	$8\frac{3}{4}$	.55	33C
737	$\frac{3}{4}$ & $\frac{7}{8}$	$1\frac{1}{8}$ & $1\frac{1}{4}$	$11\frac{1}{2}$	.96	737

Packed one set in cardboard box, \$2.48; one set in wooden box, \$2.64; one set in canvas roll, \$2.93.

**SET 5S**—Contains 5 Straight Bar Wrenches, with 15° Angle for S. A. E. Standard Nuts and Cap Screws:

No.	For S. A. E. Standard Nuts and Cap Screws, Size of Bolts, or Cap Screws	Openings Finished, Inches	Extreme Length, Inches	Semi-finished	No.
725	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{7}{16}$ & $\frac{1}{2}$	$4\frac{7}{8}$	\$0.25	725
727	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{9}{16}$ & $\frac{5}{8}$	$5\frac{7}{8}$	.31	727
731A	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{3}{4}$ & $\frac{7}{8}$	$7\frac{3}{4}$	.45	731A
33C	$\frac{5}{8}$ & $\frac{11}{16}$	$\frac{13}{16}$ & 1	$8\frac{3}{4}$	.55	33C
37	$\frac{3}{4}$ & $\frac{7}{8}$	$1\frac{1}{16}$ & $1\frac{1}{4}$	$11\frac{1}{2}$	.96	37

Packed one set in cardboard box, \$2.52; one set in wooden box, \$2.68; one set in canvas roll, \$2.97.

Bulk weight of above sets about 4 lbs. each.

The above are only three of numerous sets that we manufacture.





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## A COMPLETE DROP FORGED SET OF WRENCHES FOR FORD CARS

This set consists of six wrenches which contain openings especially milled to fit **every nut on a Ford car.** There are five straight-bar, 15°-angle wrenches of a new and strong design. Also a thin wrench, with offset bar, for the reverse gear and brake adjustments.

This is a complete set and should have a ready sale to every Ford owner. We recommend offering this set in Canvas Roll, the most practical way for the purchaser to keep tools in handy and workable condition.



### FORD OWNER'S WRENCH SET



No. 9

MADE BY BONNEY VISE & TOOL WORKS, INC.  
ALLENTEW, PA.



SET No. 9

No.	Openings	For Nuts and Cap Screws	Length Inches	Semi- Finished	No.
23F	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{1}{4}$ A. L. A. M. $\frac{1}{4}$ S. A. E. $\frac{15}{16}$ Cap Screw $\frac{1}{4}$ Cap Screw	4 $\frac{1}{4}$	\$0.21	23F
25F	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{5}{16}$ A. L. A. M. $\frac{3}{8}$ A. L. A. M. $\frac{5}{16}$ S. A. E. $\frac{3}{8}$ S. A. E. $\frac{15}{16}$ Cap Screw $\frac{3}{8}$ Cap Screw	5	.25	25F
27F	$\frac{5}{8}$ & $\frac{3}{4}$	$\frac{7}{16}$ S. A. E. $\frac{1}{2}$ A. L. A. M. $\frac{7}{16}$ Cap Screw $\frac{1}{2}$ S. A. E. $\frac{1}{2}$ Cap Screw	6	.31	27F
29F	$\frac{11}{16}$ & $\frac{25}{32}$	$\frac{5}{16}$ A. L. A. M. $\frac{1}{2}$ U. S. S. $\frac{9}{16}$ A. L. A. M. $\frac{5}{8}$ A. L. A. M.	6 $\frac{3}{4}$	.37	29F
33F	$\frac{7}{8}$ & $\frac{15}{16}$	$\frac{9}{16}$ S. A. E. $\frac{5}{8}$ S. A. E. $\frac{5}{8}$ Cap Screw $\frac{1}{2}$ U. S. S.	9	.55	33F
Reverse gear 100F	{ $\frac{5}{8}$ & $\frac{11}{16}$		8 $\frac{3}{4}$	.53	Reverse gear 100F

Packed in cardboard boxes, \$2.50 per set; or in canvas rolls, \$2.75 per set. Weight 2 $\frac{1}{4}$  lbs. per set,  
1 gross sets in a case



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## BONNEY A. L. A. M. S. A. E. SET 32

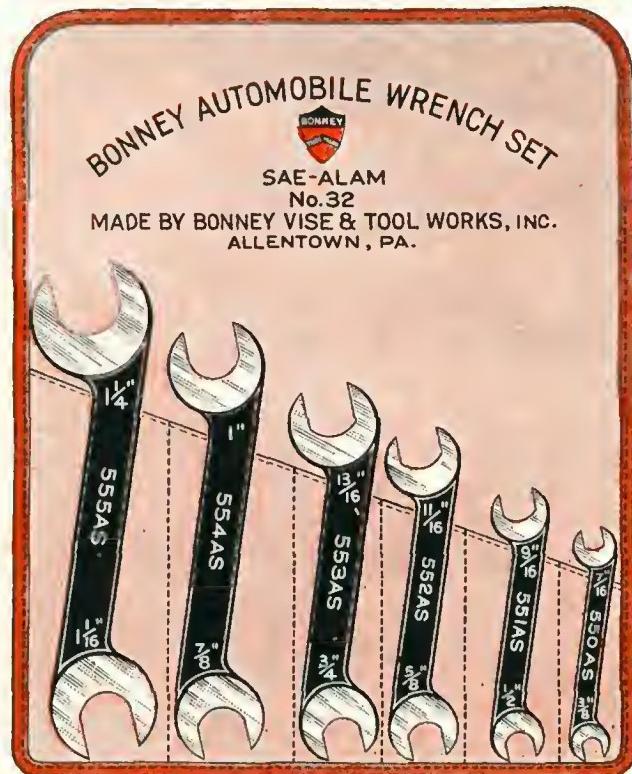
22½° Angle

The best open-end Automobile Wrench Set made, correct in shape, size and angle.

Handy and efficient in close quarters that will not permit the use of ordinary wrenches.

Covers thirty-two of the most commonly used nuts and cap screws from  $\frac{1}{4}$ " to  $\frac{7}{8}$ ". Openings running from  $\frac{3}{8}$ " to  $1\frac{1}{4}$ ".

Preferred by many because of the degree at which the opening is set, the angle permitting a wider swing than a 15° Wrench.



No.	Openings	Length	Semi-Finished	SAE	FITS			No.
					ALAM	U. S. Bolt Size	Hex. Cap	
550AS	$\frac{3}{8}X\frac{7}{16}$	$4\frac{3}{4}$	\$0.25	$X\frac{1}{4}$	$\frac{1}{4}X$		$\frac{3}{8}X\frac{1}{4}$	550AS
551AS	$\frac{1}{2}X\frac{9}{16}$	$5\frac{3}{4}$	.31	$\frac{5}{16}X\frac{3}{8}$	$\frac{5}{16}X\frac{3}{8}$	$\frac{1}{4}X$	$\frac{5}{16}X\frac{3}{8}$	551AS
552AS	$\frac{5}{8}X\frac{11}{16}$	7	.40	$\frac{1}{2}X$	$\frac{1}{2}X$	$X\frac{3}{8}$	$\frac{1}{2}X$	552AS
553AS	$\frac{3}{4}X\frac{13}{16}$	$8\frac{1}{4}$	.53	$\frac{1}{2}X$	$\frac{1}{2}X$		$\frac{1}{2}X\frac{5}{16}$	553AS
554AS	$\frac{7}{8}X1$	$9\frac{1}{2}$	.72	$\frac{9}{16}X\frac{11}{16}$	$\frac{9}{16}X\frac{11}{16}$	$\frac{1}{2}X$	$\frac{7}{8}X\frac{9}{16}$	554AS
555AS	$1\frac{1}{16}X1\frac{1}{4}$	11	.96	$\frac{3}{4}X\frac{7}{8}$	$X\frac{7}{8}$	$\frac{5}{8}X\frac{3}{4}$	x1	555AS

Packed in cardboard boxes, \$3.50 per set; or canvas rolls, \$3.75 per set. Weight about  $5\frac{1}{2}$  lbs., per set, one gross sets in the case



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## A. L. A. M. WRENCHES



DROP FORGED



Illustration shows 550 A. L. A. M. Line

Correct in Shape and Angle.

22 $\frac{1}{2}$ <sup>o</sup>

An especially desirable line of Automotive Wrenches, covering principal A. L. A. M., S. A. E. and U. S. Standard Nuts, also Hexagon Cap Screws from  $\frac{1}{4}$ " to 1", as shown in table.

No.	Size of Openings Inches	Length Over All Inches	FITS				List Semi- Finish	No.
			A. L. A. M.	S. A. E.	Hex. Cap	U. S. S. Bolt Size		
550 ALAM	$\frac{3}{8} \times \frac{7}{16}$	$4\frac{1}{2}$	$\frac{1}{4} \times \frac{5}{16}$	$\frac{3}{16} \times \frac{5}{16}$	$\frac{3}{16} \times \frac{5}{16}$	$\frac{1}{4}$	\$0.25	550 ALAM
551 ALAM	$\frac{1}{16} \times \frac{1}{16}$	$5\frac{3}{4}$	$\frac{3}{8} \times \frac{1}{16}$	$\frac{3}{8} \times \frac{1}{16}$	$\frac{3}{8} \times \frac{1}{16}$	$\frac{3}{8}$	.31	551 ALAM
552 ALAM	$\frac{3}{4} \times \frac{7}{8}$	7	$\frac{1}{2} \times \frac{9}{16}$	$\frac{1}{2} \times \frac{9}{16}$	$\frac{1}{2} \times \frac{9}{16}$	$\frac{1}{2}$	.40	552 ALAM
553 ALAM	$\frac{1}{16} \times 1$	8	$\frac{5}{8} \times \frac{11}{16}$	$\frac{5}{8} \times \frac{11}{16}$	$\frac{5}{8} \times \frac{11}{16}$	$\frac{3}{4}$	.53	553 ALAM
555 ALAM	$1\frac{1}{8} \times 1\frac{1}{4}$	$10\frac{1}{2}$	$\frac{3}{4} \times \frac{7}{8}$	$\frac{3}{4} \times \frac{7}{8}$	$\frac{3}{4} \times \frac{7}{8}$	$\frac{3}{4}$	.96	555 ALAM
							\$2.45	

These wrenches can be sold in sets, one each of the above sizes packed in cardboard boxes, listing at \$2.45 per set or in canvas rolls, listing at \$2.90 per set. Weight about 4 lbs.



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## REFERENCE CHART OF DROP FORGED WRENCHES FOR AUTOMOTIVE PURPOSES

No.	No.	No.	Openings	FIT
			T.S.S. Bolt Size	Hex. Cap.
				A.I.A.M.
500	723A	550ALAM	3/8 X 1/2	3/16 X 5/16
500A		550AS	3/8 X 1/2	1/3 X 1/4
500B	23		3/2 X 1/2	1/6 X 5/16
500C			1/4 X 1/2	X 5/16
501	726		1/2 X 5/8	5/16 X 1/8
501A	725B	551AS	1/2 X 9/16	1/6 X 7/16
501B	27		1/2 X 11/16	1/6 X 3/8
501C	23		1/2 X 13/16	X 7/16
502	729		1/2 X 15/16	X 1/6
502A	27C	551ALAM	9/16 X 3/4	X 1/6
502B		552AS	9/16 X 5/8	X 1/6
502C			9/16 X 9/16	X 1/6
503	731A	552ALAM	3/4 X 1/2	7/16 X 1/2
503A	731	553AS	3/4 X 1/2	1/2 X 1/2
503B	31		25/32 X 7/8	1/2 X 5/8
503C			11/16 X 3/4	X 1/2
504	733	554AS	7/8 X 1	9/16 X 1/2
504A	33C	553ALAM	15/16 X 1	9/16 X 1/2
504B	34		7/8 X 1 1/16	9/16 X 1/2
505	735		1 X 1 1/8	1/16 X 3/4
505A	736		1 X 1 1/4	1/16 X 1/16
505B	37	555AS	1 1/16 X 1 1/4	1/16 X 1/16
505C	737	555ALAM	1 1/8 X 1 1/4	1/16 X 1/16

1/16 opening will fit a 1/4 S.A.E. Nut	5/8 opening will fit a 7/16 S.A.E. Nut	1/16 opening will fit a 5/8 S.A.E. Nut	1/4 opening will fit a 7/8 S.A.E. Nut
" " "	" " "	" " "	" " "
1/2 "	1/2 "	1/2 "	1/2 "
9/16 "	9/16 "	9/16 "	9/16 "
16 "	16 "	16 "	16 "

FOR PRICES, ETC., SEE LISTS ON DESCRIPTIVE PAGES



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## SINGLE END ENGINEERS' WRENCHES

DROP FORGED



For U. S. Standard Hexagon Nuts Drop-Forged of Bar Steel  
15° Angle

No.	For U. S. Standard Nut; Size Bolt	Opening Milled	Extreme Length	Thickness Head	PRICE EACH			No.
					Unfin- ished	Semi- finished	Finished	
00	$\frac{1}{8}$	$\frac{5}{16}$	$2\frac{1}{2}$	$\frac{3}{16}$	\$0.09	\$0.14	\$0.22	00
0	$\frac{3}{16}$	$\frac{13}{32}$	$2\frac{7}{8}$	$\frac{3}{16}$	.10	.15	.25	0
1	$\frac{1}{4}$	$\frac{1}{2}$	$3\frac{3}{4}$	$\frac{4}{16}$	.12	.18	.28	1
2	$\frac{5}{16}$	$\frac{19}{32}$	$4\frac{3}{4}$	$\frac{9}{32}$	.15	.22	.32	2
3	$\frac{9}{32}$	$\frac{11}{32}$	$5\frac{5}{8}$	$\frac{5}{16}$	.18	.26	.38	3
4	$\frac{7}{16}$	$\frac{25}{32}$	$6\frac{1}{2}$	$\frac{11}{32}$	.22	.32	.45	4
5	$\frac{1}{2}$	$\frac{7}{8}$	$7\frac{1}{2}$	$\frac{3}{8}$	.26	.38	.54	5
6	$\frac{9}{16}$	$\frac{31}{32}$	$8\frac{3}{8}$	$\frac{7}{16}$	.31	.46	.65	6
7	$\frac{5}{8}$	$1\frac{15}{16}$	$9\frac{1}{4}$	$\frac{9}{16}$	.40	.57	.82	7
8	$\frac{3}{4}$	$1\frac{1}{4}$	$11\frac{1}{8}$	$\frac{1}{6}$	.55	.75	1.05	8
9	$\frac{7}{8}$	$1\frac{1}{6}$	13	$\frac{21}{32}$	.85	1.15	1.52	9
10	1	$1\frac{1}{8}$	$14\frac{3}{4}$	$\frac{3}{8}$	1.20	1.60	2.10	10
11	$1\frac{1}{8}$	$1\frac{1}{6}$	$16\frac{1}{2}$	$\frac{7}{16}$	1.65	2.10	2.80	11
12	$1\frac{1}{4}$	2	$18\frac{1}{2}$	$\frac{29}{32}$	2.20	2.85	3.70	12
13	$1\frac{3}{8}$	$2\frac{3}{8}$	20	1	2.80	3.65	4.70	13
14	$1\frac{1}{2}$	$2\frac{3}{8}$	22	$1\frac{1}{16}$	3.45	4.60	5.80	14
15	$1\frac{5}{8}$	$2\frac{9}{16}$	24	$1\frac{1}{8}$	4.15	5.60	7.10	15
16	$1\frac{3}{4}$	$2\frac{4}{8}$	$25\frac{1}{2}$	$1\frac{7}{32}$	4.90	6.70	8.50	16
16½	$1\frac{7}{8}$	$2\frac{15}{32}$	27	$1\frac{7}{32}$	4.90	6.70	8.50	16½
17	2	$3\frac{1}{8}$	$29\frac{1}{2}$	$1\frac{3}{8}$	7.50	10.25	13.00	17
18	$2\frac{1}{4}$	$3\frac{1}{2}$	33	$1\frac{17}{32}$	11.50	14.75	18.00	18
19	$2\frac{1}{2}$	$3\frac{7}{8}$	37	$1\frac{5}{16}$	17.00	21.00	25.00	19
19½	$2\frac{3}{4}$	$4\frac{1}{8}$	39	$1\frac{5}{8}$	17.00	21.00	25.00	19½
20	3	$4\frac{5}{8}$	41	$1\frac{7}{8}$	25.00	31.00	37.00	20
20A	$3\frac{1}{4}$	5	43	$1\frac{7}{16}$	25.00	31.00	37.00	20A
20B	$3\frac{1}{2}$	$5\frac{3}{8}$	51	$1\frac{7}{8}$	40.00	52.00	64.00	20B
20C	$3\frac{1}{4}$	$5\frac{1}{4}$	51	$1\frac{7}{8}$	40.00	52.00	64.00	20C
20D	4	$6\frac{1}{8}$	53	$1\frac{7}{8}$	40.00	52.00	64.00	20D
20E	$4\frac{1}{2}$	$6\frac{7}{8}$	53	$1\frac{7}{8}$	80.00	102.00	124.00	20E
20F	5	$7\frac{5}{8}$	53	$1\frac{7}{8}$	80.00	102.00	124.00	20F

Be particular when ordering to state whether unfinished, semi-finished or finished are wanted.  
See page 15 for description.



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## DOUBLE END ENGINEERS' WRENCHES

DROP FORGED



For U. S. Standard Hexagon Nuts. Drop-Forged of Bar Steel.  
15° Angle.



No.	For U. S. Standard Nuts; Size Bolts	Openings Milled	Ex- treme Length	Thickness Head	PRICE EACH			No.
					Unfin- ished	Semi- fin- ished	Fin- ished	
21	1 5/8 & 1 3/4	1 3/4 & 1 1/2	3 1/4	1 3/4 & 1 3/4	\$0.12	\$0.17	\$0.26	21
22	1 5/8 & 1 1/2	1 1/2 & 1 1/2	4	1 3/4 & 1 3/4	.14	.21	.32	22
23	1 5/8 & 1 1/2	1 3/4 & 1 1/2	4	1 3/2 & 1 4/5	.14	.21	.32	23
24	1 5/8 & 1 1/2	1 3/2 & 1 9/16	4 7/8	1 3/2 & 1 3/2	.17	.25	.38	24
25	1 5/8 & 1 1/2	1 1/2 & 1 9/16	4 7/8	1 1/4 & 1 3/2	.17	.25	.38	25
26	1 5/8 & 1 1/2	1 3/2 & 1 1/2	5 7/8	1 1/4 & 1 5/8	.21	.31	.46	26
27	1 5/8 & 1 1/2	1 9/16 & 1 1/2	5 7/8	1 3/2 & 1 1/2	.21	.31	.46	27
28	1 5/8 & 1 1/2	1 3/2 & 1 1/2	6 1/2	1 3/2 & 1 1/2	.25	.37	.56	28
29	1 5/8 & 1 1/2	1 1/2 & 1 1/2	6 1/2	1 1/2 & 1 1/2	.25	.37	.56	29
30	1 5/8 & 1 1/2	1 1/2 & 1 1/2	7 3/4	1 1/2 & 1 1/2	.30	.45	.68	30
31	1 5/8 & 1 1/2	1 25/32 & 1 1/2	7 3/4	1 1/2 & 1 3/2	.30	.45	.68	31
32	1 7/8 & 1 1/2	1 25/32 & 1 1/2	8 3/4	1 1/2 & 1 7/8	.37	.55	.85	32
33	1 7/8 & 1 1/2	1 3/2 & 1 1/2	8 3/4	1 2/2 & 1 1/2	.37	.55	.85	33
34	1 7/8 & 1 1/2	1 7/8 & 1 1/2	9 3/4	1 3/2 & 1 1/2	.46	.68	1.08	34
35	1 9/16 & 1 1/2	1 3/2 & 1 1/2	9 3/4	1 1/2 & 1 9/16	.46	.68	1.08	35
36	1 9/16 & 1 1/2	1 3/2 & 1 1/2	11 1/2	1 1/2 & 1 9/16	.66	.96	1.40	36
37	1 9/16 & 1 1/2	1 1/2 & 1 1/2	11 1/2	1 1/2 & 1 9/16	.66	.96	1.40	37
38	1 9/16 & 1 1/2	1 1/2 & 1 1/2	13 1/2	1 1/2 & 1 2 1/2	1.00	1.40	1.90	38
39	1 9/16 & 1 1/2	1 1/2 & 1 1/2	13 1/2	1 1/2 & 1 2 1/2	1.00	1.40	1.90	39
40	1 9/16 & 1 1/2	1 1/2 & 1 1/2	15 1/2	1 1/2 & 1 2 1/2	1.40	1.90	2.60	40
41	1 9/16 & 1 1/2	1 1/2 & 1 1/2	15 1/2	1 1/2 & 1 2 1/2	1.40	1.90	2.60	41
42	1 9/16 & 1 1/2	1 1/2 & 1 1/2	17	1 2/2 & 1 2 1/2	1.90	2.65	3.50	42
43	1 1/2 & 1 1/2	1 1/2 & 1 1/2	17	1 3/4 & 1 2 1/2	1.90	2.65	3.50	43
44	1 1/2 & 1 1/2	1 1/2 & 1 1/2	19	1 3/4 & 1 2 1/2	2.60	3.60	4.70	44
45	1 1/2 & 1 1/2	1 1/2 & 2	19	1 3/4 & 2	2.60	3.60	4.70	45
46	1 1/2 & 1 1/2	1 1/2 & 2 3/16	21	1 3/2 & 2	3.80	5.25	6.70	46
47	1 1/2 & 1 1/2	2 & 2 3/16	21	1 3/2 & 2	3.80	5.25	6.70	47
48	1 1/2 & 1 1/2	2 & 2 3/16	23	1 3/2 & 2	5.20	7.00	8.80	48
49	1 1/2 & 1 1/2	2 1/2 & 2 3/16	23	1 3/2 & 1 1/16	5.20	7.00	8.80	49
50	1 1/2 & 1 1/2	2 1/2 & 2 9/16	25	1 1/2 & 1 1/8	6.75	9.00	11.25	50
51	1 1/2 & 1 1/2	2 3/8 & 2 9/16	25	1 1/8 & 1 1/8	7.40	9.90	12.40	51
52	1 1/2 & 1 1/2	2 3/8 & 2 9/16	27	1 1/6 & 1 7/32	8.35	11.00	13.65	52
53	1 1/2 & 1 1/2	2 1/6 & 2 9/16	27	1 1/8 & 1 7/32	9.00	12.00	15.00	53
53 <sup>1</sup>	1 1/2 & 1 1/2	2 1/6 & 2 15/16	29	1 1/8 & 1 3/8	10.00	13.00	16.00	53 <sup>1</sup>
54	1 1/2 & 2	2 9/16 & 3 1/8	31 1/2	1 1/8 & 1 3/8	11.00	14.25	17.50	54
55	1 1/2 & 2	2 1/4 & 3 1/8	32 1/2	1 3/2 & 1 3/8	12.00	15.50	19.00	55
55 <sup>1</sup>	1 1/2 & 2	2 1/6 & 3 1/8	33	1 3/2 & 1 3/8	13.50	17.00	20.50	55 <sup>1</sup>
56	1 1/2 & 2 1/4	2 1/4 & 3 1/8	34	1 3/2 & 1 3/8	16.00	20.00	24.00	56
56 <sup>1</sup>	1 1/2 & 2 1/4	2 1/6 & 3 1/8	35	1 3/2 & 1 3/8	17.00	21.00	25.00	56 <sup>1</sup>
57	2 & 2 1/4	3 1/8 & 3 1/4	36	1 3/4 & 1 3/2	18.50	23.50	28.50	57
57 <sup>1</sup>	2 & 2 1/2	3 1/8 & 3 7/8	37	1 3/8 & 1 3/8	23.00	28.00	33.00	57 <sup>1</sup>

Be particular when ordering to state whether unfinished, semi-finished or finished are wanted.  
See page 15 for description.

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## SINGLE HEAD WRENCHES

DROP FORGED



For Hexagon Cap Screws  
15° Angle

All stock wrenches are milled to fit standard Hexagon cap screws.

Larger or special sizes milled to order.

No.	For Hex. Head Cap Screw Diameter of Screws	Openings Finished	Length	Thick- ness of Head	PRICE EACH			No.
					Un- finished	Semi- finished	Finished	
700	$\frac{3}{8}$	$\frac{3}{8}$	$2\frac{7}{8}$	$\frac{7}{32}$	\$0.10	\$0.15	\$0.25	700
701	$\frac{1}{4}$	$\frac{7}{16}$	$3\frac{1}{4}$	$\frac{1}{4}$	.12	.18	.28	701
701A	$\frac{5}{16}$	$\frac{1}{2}$	$3\frac{3}{4}$	$\frac{1}{4}$	.12	.18	.28	701A
702	$\frac{3}{8}$	$\frac{9}{16}$	$4\frac{1}{4}$	$\frac{9}{32}$	.15	.22	.32	702
703	$\frac{7}{16}$	$\frac{15}{16}$	$5\frac{5}{8}$	$\frac{5}{16}$	.18	.26	.38	703
704	$\frac{1}{2}$	$\frac{3}{4}$	$6\frac{1}{2}$	$\frac{11}{32}$	.22	.32	.45	704
705	$\frac{9}{16}$	$\frac{13}{16}$	$7\frac{1}{2}$	$\frac{63}{32}$	.26	.38	.54	705
705A	$\frac{5}{8}$	$\frac{7}{8}$	$7\frac{1}{2}$	$\frac{25}{32}$	.26	.38	.54	705A
706	$\frac{1}{2}$	1	$8\frac{3}{8}$	$\frac{7}{16}$	.31	.46	.65	706
707	$\frac{7}{8}$	$1\frac{1}{8}$	$9\frac{1}{4}$	$\frac{31}{32}$	.40	.57	.82	707
708	1	$1\frac{1}{4}$	$11\frac{1}{8}$	$\frac{9}{16}$	.55	.75	1.05	708
708A	$1\frac{1}{8}$	$1\frac{3}{8}$	$11\frac{1}{8}$	$\frac{9}{16}$	.55	.75	1.05	708A
709	$1\frac{1}{4}$	$1\frac{1}{2}$	13	$\frac{21}{32}$	.85	1.15	1.52	709
710	$1\frac{3}{8}$	$1\frac{5}{8}$	$14\frac{3}{4}$	$\frac{3}{4}$	1.20	1.60	2.10	710

Be particular when ordering to state whether unfinished, semi-finished or finished are wanted.  
See page 15 for description.



TRADE

**BONNEY**

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**DOUBLE HEAD WRENCHES****DROP FORGED**

**For Hexagon Cap Screws  
15° Angle**

No.	For Hex. Head Cap Screws. Diameter of Screws	Openings Finished	Length	Thickness of Head	PRICE EACH			No.
					Unfin- ished	Semi- fin- ished	Fin- ished	
721	$\frac{1}{8}$ & $\frac{3}{16}$	$\frac{5}{16}$ & $\frac{3}{8}$	$3\frac{1}{4}$	$\frac{5}{8}$ & $\frac{3}{16}$	\$0.12	<b>\$0.17</b>	\$0.26	721
722	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{1}{16}$ & $\frac{1}{16}$	4	$\frac{5}{8}$ & $\frac{1}{4}$	.14	<b>.21</b>	.32	722
723	$\frac{3}{16}$ & $\frac{1}{4}$	$\frac{3}{16}$ & $\frac{1}{16}$	4	$\frac{3}{2}$ & $\frac{1}{4}$	.14	<b>.21</b>	.32	723
723A	$\frac{1}{8}$ & $\frac{5}{16}$	$\frac{3}{16}$ & $\frac{1}{16}$	4	$\frac{7}{8}$ & $\frac{1}{4}$	.14	<b>.21</b>	.32	723A
724	$\frac{1}{8}$ & $\frac{5}{8}$	$\frac{3}{8}$ & $\frac{9}{16}$	$4\frac{7}{8}$	$\frac{3}{2}$ & $\frac{9}{32}$	.17	<b>.25</b>	.38	724
725	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{7}{16}$ & $\frac{1}{2}$	$4\frac{7}{8}$	$\frac{1}{4}$ & $\frac{3}{2}$	.17	<b>.25</b>	.38	725
725A	$\frac{1}{4}$ & $\frac{3}{8}$	$\frac{7}{16}$ & $\frac{9}{16}$	$4\frac{7}{8}$	$\frac{1}{4}$ & $\frac{3}{2}$	.17	<b>.25</b>	.38	725A
725B	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{1}{16}$ & $\frac{1}{16}$	$4\frac{7}{8}$	$\frac{1}{4}$ & $\frac{1}{16}$	.17	<b>.25</b>	.38	725B
726	$\frac{1}{6}$ & $\frac{7}{16}$	$\frac{1}{2}$ & $\frac{1}{16}$	$5\frac{1}{4}$	$\frac{9}{16}$ & $\frac{5}{16}$	.21	<b>.31</b>	.46	726
727	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{9}{16}$ & $\frac{5}{8}$	$5\frac{1}{8}$	$\frac{3}{2}$ & $\frac{11}{32}$	.21	<b>.31</b>	.46	727
728	$\frac{5}{8}$ & $\frac{1}{2}$	$\frac{1}{16}$ & $\frac{3}{8}$	$6\frac{1}{8}$	$\frac{3}{2}$ & $\frac{11}{32}$	.25	<b>.37</b>	.56	728
729	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{1}{16}$ & $\frac{9}{16}$	$6\frac{1}{8}$	$\frac{5}{8}$ & $\frac{11}{32}$	.25	<b>.37</b>	.56	729
730	$\frac{1}{6}$ & $\frac{1}{6}$	$\frac{5}{8}$ & $\frac{1}{16}$	$7\frac{1}{4}$	$\frac{1}{6}$ & $\frac{25}{32}$	.30	<b>.45</b>	.68	730
731	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{1}{16}$ & $\frac{1}{16}$	$7\frac{3}{4}$	$\frac{11}{16}$ & $\frac{25}{32}$	.30	<b>.45</b>	.68	731
731A	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{1}{16}$ & $\frac{1}{16}$	$7\frac{3}{4}$	$\frac{11}{16}$ & $\frac{25}{32}$	.30	<b>.45</b>	.68	731A
731B	$\frac{9}{16}$ & $\frac{5}{8}$	$\frac{1}{16}$ & $\frac{7}{8}$	$7\frac{3}{4}$	$\frac{11}{16}$ & $\frac{25}{32}$	.30	<b>.45</b>	.68	731B
732	$\frac{1}{6}$ & $\frac{8}{16}$	$\frac{1}{16}$ & $\frac{1}{16}$	$8\frac{3}{4}$	$\frac{11}{16}$ & $\frac{1}{16}$	.37	<b>.55</b>	.85	732
732A	$\frac{9}{16}$ & $\frac{3}{4}$	$\frac{13}{16}$ & 1	$8\frac{3}{4}$	$\frac{3}{2}$ & $\frac{16}{16}$	.37	<b>.55</b>	.85	732A
733	$\frac{5}{8}$ & $\frac{3}{4}$	$\frac{17}{16}$ & 1	$8\frac{3}{4}$	$\frac{25}{16}$ & $\frac{7}{16}$	.37	<b>.55</b>	.85	733
734	$\frac{5}{8}$ & $\frac{7}{8}$	$\frac{17}{16}$ & $\frac{1}{8}$	$9\frac{1}{4}$	$\frac{6}{16}$ & $\frac{31}{32}$	.46	<b>.68</b>	1.08	734
735	$\frac{3}{4}$ & $\frac{7}{8}$	1 & $\frac{1}{16}$	$9\frac{3}{4}$	$\frac{7}{16}$ & $\frac{31}{32}$	.46	<b>.68</b>	1.08	735
736	$\frac{4}{3}$ & 1	1 & $\frac{1}{16}$	$11\frac{5}{8}$	$\frac{11}{16}$ & $\frac{9}{16}$	.66	<b>.96</b>	1.40	736
737	$\frac{7}{8}$ & 1	$1\frac{1}{8}$ & $\frac{1}{16}$	$11\frac{5}{8}$	$\frac{31}{16}$ & $\frac{16}{16}$	.66	<b>.96</b>	1.40	737
738	$\frac{7}{8}$ & $1\frac{1}{8}$	$1\frac{1}{8}$ & $\frac{1}{16}$	$13\frac{1}{2}$	$\frac{2}{16}$ & $\frac{31}{32}$	1.00	<b>1.40</b>	1.90	738
739	1 & $1\frac{1}{8}$	$1\frac{1}{4}$ & $\frac{1}{16}$	$13\frac{1}{2}$	$\frac{16}{16}$ & $\frac{31}{32}$	1.00	<b>1.40</b>	1.90	739
739A	1 & $1\frac{1}{4}$	$1\frac{1}{4}$ & $\frac{1}{16}$	$13\frac{1}{2}$	$\frac{16}{16}$ & $\frac{31}{32}$	1.00	<b>1.40</b>	1.90	739A
739B	$1\frac{1}{8}$ & $1\frac{1}{4}$	$1\frac{1}{8}$ & $1\frac{1}{2}$	$13\frac{1}{2}$	$\frac{16}{16}$ & $\frac{21}{32}$	1.00	<b>1.40</b>	1.90	739B

Be particular when ordering to state whether unfinished, semi-finished or finished are wanted.  
See page 15 for description.



TRADE

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## DOUBLE HEAD "S" WRENCHES

DROP FORGED



For U. S. Standard Nuts, 22½° Angle

## A SHORT, HEAVY TOOL FOR HARD USAGE

In Stock with openings for U. S. Standard Finished Nuts; A. L. A. M., S. A. E. and Whitworth Standard also Metric Measure to order.

Number	For U. S. Standard Nuts; Size Bolts	Openings, Milled	Extreme Length	Thickness Heads	PRICE EACH			Number
					Un- finished	Semi- finished	Fin- ished	
661A	$\frac{1}{8}$ & $\frac{3}{16}$	$\frac{1}{16}$ & $\frac{3}{32}$	4	$\frac{9}{16}$	\$0.15	<b>\$0.22</b>	.32	661A
661B	$\frac{1}{8}$ & $\frac{5}{16}$	$\frac{1}{16}$ & $\frac{5}{32}$	4	$\frac{13}{16}$	.15	<b>.22</b>	.32	661B
661C	$\frac{1}{16}$ & $\frac{1}{4}$	$\frac{3}{32}$ & $\frac{1}{8}$	4	$\frac{17}{16}$	.15	<b>.22</b>	.32	661C
662A	$\frac{3}{16}$ & $\frac{1}{8}$	$\frac{11}{32}$ & $\frac{3}{16}$	5	$\frac{11}{16}$	.20	<b>.29</b>	.42	662A
662B	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{11}{32}$ & $\frac{5}{32}$	5	$\frac{15}{16}$	.20	<b>.29</b>	.42	662B
662C	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{9}{32}$ & $\frac{1}{8}$	5	$\frac{19}{16}$	.20	<b>.29</b>	.42	662C
663A	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{11}{32}$ & $\frac{11}{32}$	6 $\frac{1}{2}$	$\frac{11}{16}$	.27	<b>.39</b>	.56	663A
663B	$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{11}{32}$ & $\frac{11}{32}$	6 $\frac{1}{2}$	$\frac{15}{16}$	.27	<b>.39</b>	.56	663B
663C	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{11}{32}$ & $\frac{11}{32}$	6 $\frac{1}{2}$	$\frac{19}{16}$	.27	<b>.39</b>	.56	663C
664A	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{11}{32}$ & $\frac{7}{16}$	7 $\frac{1}{2}$	$\frac{7}{16}$	.37	<b>.53</b>	.75	664A
664B	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{11}{32}$ & $\frac{11}{32}$	7 $\frac{1}{2}$	$\frac{11}{16}$	.37	<b>.53</b>	.75	664B
664C	$\frac{1}{8}$ & $\frac{1}{2}$	$\frac{11}{32}$ & $\frac{11}{32}$	7 $\frac{1}{2}$	$\frac{15}{16}$	.37	<b>.53</b>	.75	664C
665A	$\frac{1}{16}$ & $\frac{3}{16}$	$\frac{1}{16}$ & $\frac{3}{32}$	9	$\frac{1}{16}$	.50	<b>.72</b>	1.00	665A
665B	$\frac{1}{16}$ & $\frac{5}{16}$	$\frac{1}{16}$ & $\frac{1}{16}$	9	$\frac{1}{16}$	.50	<b>.72</b>	1.00	665B
665C	$\frac{1}{16}$ & $\frac{1}{8}$	$\frac{1}{16}$ & $\frac{1}{16}$	9	$\frac{1}{16}$	.50	<b>.72</b>	1.00	665C
666A	$\frac{9}{16}$ & $\frac{3}{8}$	$\frac{11}{32}$ & $\frac{11}{32}$	10 $\frac{1}{2}$	$\frac{9}{16}$	.74	<b>1.00</b>	1.35	666A
666B	$\frac{1}{2}$ & $\frac{5}{8}$	$1\frac{1}{16}$ & $\frac{11}{32}$	10 $\frac{1}{2}$	$\frac{13}{16}$	.74	<b>1.00</b>	1.35	666B
666C	$\frac{1}{8}$ & $\frac{1}{2}$	$1\frac{1}{16}$ & $1\frac{1}{16}$	10 $\frac{1}{2}$	$\frac{17}{16}$	.74	<b>1.00</b>	1.35	666C
667A	$\frac{1}{8}$ & $\frac{7}{16}$	$1\frac{1}{16}$ & $1\frac{1}{16}$	12	$\frac{1}{16}$	1.10	<b>1.45</b>	1.90	667A
667B	$\frac{1}{8}$ & $1$	$1\frac{1}{16}$ & $1\frac{1}{16}$	12	$\frac{1}{16}$	1.10	<b>1.45</b>	1.90	667B
667C	$\frac{1}{8}$ & $1$	$1\frac{1}{16}$ & $1\frac{1}{16}$	12	$\frac{1}{16}$	1.10	<b>1.45</b>	1.90	667C
668A	$\frac{7}{16}$ & $1\frac{1}{2}$	$1\frac{7}{16}$ & $1\frac{1}{16}$	14	$\frac{3}{16}$	1.90	<b>2.50</b>	3.20	668A
668B	$1$ & $1\frac{1}{2}$	$1\frac{1}{16}$ & $1\frac{1}{16}$	14	$\frac{3}{16}$	1.90	<b>2.50</b>	3.20	668B
668C	$1$ & $1\frac{1}{2}$	$1\frac{1}{16}$ & $2$	14	$\frac{3}{16}$	1.90	<b>2.50</b>	3.20	668C

Be particular when ordering to state whether unfinished, semi-finished or finished are wanted.  
See page 15 for description.



TRADE

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## DOUBLE HEAD "S" WRENCHES

DROP FORGED



For Hexagon Head Cap Screws,  
22 $\frac{1}{2}$ ° Angle

In stock with openings milled for Hexagon Head Cap Screws; Whitworth Standard and Metric Measure to order. Openings for U. S. Standard Nuts, Square Head.

Number	For Hexagon Head Cap Screws; Diameter Screws	Openings, Milled	Extreme Length	Thickness Heads	PRICE EACH			Number
					Un- fin- ished	Semi- fin- ished	Fin- ished	
671A	$\frac{1}{4}$ & $\frac{3}{8}$	$\frac{3}{16}$ & $\frac{1}{4}$	4	$\frac{3}{16}$	.80	.15	<b>\$0.22</b>	671A
671B	$\frac{1}{4}$ & $\frac{3}{8}$	$\frac{3}{16}$ & $\frac{7}{16}$	4	$\frac{3}{16}$	.15	.22	.32	671B
671C	$\frac{5}{16}$ & $\frac{1}{2}$	$\frac{3}{16}$ & $\frac{1}{8}$	4	$\frac{3}{16}$	.15	.22	.32	671C
671D	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{3}{16}$ & $\frac{1}{4}$	4	$\frac{3}{16}$	.15	.22	.32	671D
672A	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{7}{16}$ & $\frac{1}{4}$	5	$\frac{8}{15}$	.20	.29	.42	672A
672B	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{7}{16}$ & $\frac{11}{16}$	5	$\frac{8}{15}$	.20	.29	.42	672B
672C	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{3}{16}$ & $\frac{1}{8}$	5	$\frac{8}{15}$	.20	.29	.42	672C
672D	$\frac{7}{16}$ & $\frac{7}{16}$	$\frac{3}{16}$ & $\frac{1}{4}$	5	$\frac{8}{15}$	.20	.29	.42	672D
673A	$\frac{3}{16}$ & $\frac{7}{16}$	$\frac{3}{16}$ & $\frac{1}{4}$	6 $\frac{1}{2}$	$\frac{1}{16}$	.27	.39	.56	673A
673B	$\frac{3}{16}$ & $\frac{7}{16}$	$\frac{3}{16}$ & $\frac{1}{4}$	6 $\frac{1}{2}$	$\frac{1}{16}$	.27	.39	.56	673B
673C	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{3}{16}$ & $\frac{1}{4}$	6 $\frac{1}{2}$	$\frac{1}{16}$	.27	.39	.56	673C
673D	$\frac{1}{16}$ & $\frac{9}{16}$	$\frac{3}{16}$ & $\frac{1}{4}$	6 $\frac{1}{2}$	$\frac{1}{16}$	.27	.39	.56	673D
674A	$\frac{1}{4}$ & $\frac{3}{8}$	$\frac{3}{16}$ & $\frac{1}{4}$	7 $\frac{1}{2}$	$\frac{1}{16}$	.37	.53	.75	674A
674B	$\frac{1}{4}$ & $\frac{3}{8}$	$\frac{3}{16}$ & $\frac{1}{4}$	7 $\frac{1}{2}$	$\frac{1}{16}$	.37	.53	.75	674B
674C	$\frac{1}{16}$ & $\frac{9}{16}$	$\frac{3}{16}$ & $\frac{1}{4}$	7 $\frac{1}{2}$	$\frac{1}{16}$	.37	.53	.75	674C
675A	$\frac{9}{16}$ & $\frac{1}{2}$	$\frac{11}{16}$ & $\frac{1}{4}$	9	$\frac{1}{16}$	.50	.72	1.00	675A
675B	$\frac{9}{16}$ & $\frac{1}{2}$	$\frac{11}{16}$ & $\frac{1}{4}$	9	$\frac{1}{16}$	.50	.72	1.00	675B
675C	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{3}{16}$ & $\frac{1}{4}$	9	$\frac{1}{16}$	.50	.72	1.00	675C
675D	$\frac{1}{4}$ & $\frac{1}{2}$	1 & $\frac{1}{4}$	9	$\frac{1}{16}$	.50	.72	1.00	675D
676A	$\frac{3}{16}$ & 1	1 & $\frac{1}{4}$	10 $\frac{1}{2}$	$\frac{1}{16}$	.74	<b>1.00</b>	1.35	676A
676B	$\frac{3}{16}$ & 1	1 $\frac{1}{2}$ & $\frac{1}{4}$	10 $\frac{1}{2}$	$\frac{1}{16}$	.74	<b>1.00</b>	1.35	676B
676C	$\frac{3}{16}$ & 1 $\frac{1}{2}$	1 $\frac{1}{2}$ & $\frac{1}{4}$	10 $\frac{1}{2}$	$\frac{1}{16}$	.74	<b>1.00</b>	1.35	676C
677A	1 & $\frac{1}{2}$	$\frac{11}{16}$ & $\frac{1}{4}$	12	$\frac{1}{16}$	1.10	<b>1.45</b>	1.90	677A
677B	1 & $\frac{1}{2}$	$\frac{11}{16}$ & $\frac{1}{4}$	12	$\frac{1}{16}$	1.10	<b>1.45</b>	1.90	677B
677C	1 $\frac{1}{2}$ & $\frac{1}{2}$	1 $\frac{1}{2}$ & $\frac{1}{4}$	12	$\frac{1}{16}$	1.10	<b>1.45</b>	1.90	677C

Be particular when ordering to state whether unfinished, semi-finished or finished are wanted.  
See page 15 for description.



TRADE

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## DOUBLE HEAD "S" WRENCHES

DROP FORGED



For Set Screws and Square Head Cap Screws,  
22 $\frac{1}{2}$ ° Angle

In stock with openings for Set Screws and Square Head Screws;  
Whitworth Standard and Metric Measure to order.

Number	For Set Screws; Sizes	For Square Head Cap Screws; Diameter Screws	Openings, Milled	Extreme Length	Thick- ness, Heads	PRICE EACH			Number
						Un- finished	Semi- finished	Fin- ished	
681A	$\frac{1}{2}$ & $\frac{5}{8}$		$\frac{1}{2}$ & $\frac{5}{8}$	4	$\frac{3}{4}$	\$0.15	\$0.22	\$0.32	681A
681B	$\frac{1}{2}$ & $\frac{5}{8}$		$\frac{1}{2}$ & $\frac{5}{8}$	4	$\frac{3}{4}$	.15	.22	.32	681B
681C	$\frac{5}{8}$ & $\frac{7}{8}$		$\frac{5}{8}$ & $\frac{7}{8}$	4	$\frac{3}{4}$	.15	.22	.32	681C
681D	$\frac{1}{2}$ & $\frac{7}{8}$		$\frac{1}{2}$ & $\frac{7}{8}$	4	$\frac{3}{4}$	.15	.22	.32	681D
682A	$\frac{5}{8}$ & $\frac{7}{8}$		$\frac{5}{8}$ & $\frac{7}{8}$	5	$\frac{3}{4}$	.20	.29	.42	682A
682B	$\frac{5}{8}$ & $\frac{7}{8}$		$\frac{5}{8}$ & $\frac{7}{8}$	5	$\frac{3}{4}$	.20	.29	.42	682B
682C	$\frac{7}{8}$ & $\frac{9}{8}$		$\frac{7}{8}$ & $\frac{9}{8}$	5	$\frac{3}{4}$	.20	.29	.42	682C
682D	$\frac{7}{8}$ & $\frac{9}{8}$		$\frac{7}{8}$ & $\frac{9}{8}$	5	$\frac{3}{4}$	.20	.29	.42	682D
683A	$\frac{1}{2}$ & $\frac{15}{16}$		$\frac{1}{2}$ & $\frac{15}{16}$	6 $\frac{1}{2}$	$\frac{3}{4}$	.27	.39	.56	683A
683B	$\frac{1}{2}$ & $\frac{15}{16}$		$\frac{1}{2}$ & $\frac{15}{16}$	6 $\frac{1}{2}$	$\frac{3}{4}$	.27	.39	.56	683B
683C	$\frac{1}{2}$ &		$\frac{1}{2}$ & $\frac{1}{2}$	6 $\frac{1}{2}$	$\frac{3}{4}$	.27	.39	.56	683C
683D	$\frac{1}{2}$ &		$\frac{1}{2}$ & $\frac{1}{2}$	6 $\frac{1}{2}$	$\frac{3}{4}$	.27	.39	.56	683D
684H	$\frac{7}{8}$ & $\frac{9}{8}$		$\frac{7}{8}$ & $\frac{9}{8}$	7 $\frac{1}{2}$	$\frac{3}{4}$	.37	.53	.75	684H
684A	$\frac{7}{8}$ & $\frac{9}{8}$		$\frac{7}{8}$ & $\frac{9}{8}$	7 $\frac{1}{2}$	$\frac{3}{4}$	.37	.53	.75	684A
684B	$\frac{7}{8}$ & $\frac{9}{8}$		$\frac{7}{8}$ & $\frac{9}{8}$	7 $\frac{1}{2}$	$\frac{3}{4}$	.37	.53	.75	684B
684K	$\frac{7}{8}$ & $\frac{9}{8}$		$\frac{7}{8}$ & $\frac{9}{8}$	7 $\frac{1}{2}$	$\frac{3}{4}$	.37	.53	.75	684K
684C	$\frac{1}{2}$ & $\frac{11}{16}$		$\frac{1}{2}$ & $\frac{11}{16}$	7 $\frac{1}{2}$	$\frac{3}{4}$	.37	.53	.75	684C
684D	$\frac{1}{2}$ & $\frac{11}{16}$		$\frac{1}{2}$ & $\frac{11}{16}$	7 $\frac{1}{2}$	$\frac{3}{4}$	.37	.53	.75	684D
685A	$\frac{3}{4}$ & $\frac{7}{8}$		$\frac{3}{4}$ & $\frac{7}{8}$	9	$\frac{3}{4}$	.50	.72	1.00	685A
685B	$\frac{3}{4}$ & $\frac{7}{8}$		$\frac{3}{4}$ & $\frac{7}{8}$	9	$\frac{3}{4}$	.50	.72	1.00	685B
685C	$\frac{3}{4}$ & $\frac{7}{8}$		$\frac{3}{4}$ & $\frac{7}{8}$	9	$\frac{3}{4}$	.50	.72	1.00	685C
686A			$\frac{3}{4}$ & $\frac{7}{8}$	10 $\frac{1}{2}$	$\frac{3}{4}$	.74	1.00	1.35	686A
686B	$\frac{7}{8}$ & $1\frac{1}{8}$		$\frac{7}{8}$ & $1\frac{1}{8}$	10 $\frac{1}{2}$	$\frac{3}{4}$	.74	1.00	1.35	686B
686C	$\frac{7}{8}$ & $1\frac{1}{8}$		$\frac{7}{8}$ & $1\frac{1}{8}$	10 $\frac{1}{2}$	$\frac{3}{4}$	.74	1.00	1.35	686C
686D	$1\frac{1}{8}$ & $1\frac{1}{4}$		$1\frac{1}{8}$ & $1\frac{1}{4}$	10 $\frac{1}{2}$	$\frac{3}{4}$	.74	1.00	1.35	686D
686E	$1\frac{1}{8}$ & $1\frac{1}{4}$		$1\frac{1}{8}$ & $1\frac{1}{4}$	10 $\frac{1}{2}$	$\frac{3}{4}$	.74	1.00	1.35	686E
687A	$1\frac{1}{8}$ & $1\frac{1}{4}$		$1\frac{1}{8}$ & $1\frac{1}{4}$	12	$\frac{3}{4}$	1.10	1.45	1.90	687A
687B	$1\frac{1}{8}$ & $1\frac{1}{4}$		$1\frac{1}{8}$ & $1\frac{1}{4}$	12	$\frac{3}{4}$	1.10	1.45	1.90	687B
687C	$1\frac{1}{8}$ & $1\frac{1}{4}$		$1\frac{1}{8}$ & $1\frac{1}{4}$	12	$\frac{3}{4}$	1.10	1.45	1.90	687C
688A	$1\frac{1}{8}$ & $1\frac{1}{4}$		$1\frac{1}{8}$ & $1\frac{1}{4}$	14	$\frac{3}{4}$	1.90	2.50	3.20	688A
688B	$1\frac{1}{8}$ & $1\frac{1}{4}$		$1\frac{1}{8}$ & $1\frac{1}{4}$	14	$\frac{3}{4}$	1.90	2.50	3.20	688B

Be particular when ordering to state whether unfinished, semi-finished or finished are wanted.  
See page 15 for description.



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## DOUBLE HEAD SET SCREW WRENCHES

DROP FORGED



15° Angle

No.	Set Screw Sizes	Extreme Length	Thickness of Heads	PRICE EACH			No.
				Unfinished	Semi-finished	Finished	
65	$\frac{3}{16}$ & $\frac{1}{4}$	$3\frac{3}{4}$	$\frac{3}{16}$	\$0.14	\$0.20	\$0.30	65
66	$\frac{3}{16}$ & $\frac{5}{16}$	$3\frac{3}{4}$	$\frac{3}{16}$	.16	.24	.35	66
67	$\frac{4}{15}$ & $\frac{1}{6}$	$4\frac{1}{2}$	$\frac{4}{15}$	.16	.24	.35	67
68	$\frac{1}{4}$ & $\frac{3}{8}$	$4\frac{1}{2}$	$\frac{1}{4}$	.19	.29	.42	68
69	$\frac{5}{16}$ & $\frac{3}{8}$	$5\frac{5}{16}$	$\frac{5}{16}$	.19	.29	.42	69
70	$\frac{5}{16}$ & $\frac{7}{16}$	$5\frac{5}{16}$	$\frac{5}{16}$	.24	.35	.52	70
71	$\frac{3}{8}$ & $\frac{1}{6}$	$6\frac{1}{16}$	$\frac{3}{8}$	.24	.35	.52	71
72	$\frac{3}{8}$ & $\frac{1}{2}$	$6\frac{1}{16}$	$\frac{3}{8}$	.30	.45	.66	72
73	$\frac{1}{6}$ & $\frac{1}{2}$	$6\frac{1}{16}$	$\frac{7}{16}$	.30	.45	.66	73
74	$\frac{1}{6}$ & $\frac{9}{16}$	$6\frac{13}{16}$	$\frac{16}{16}$	.36	.54	.80	74
75	$\frac{1}{2}$ & $\frac{1}{6}$	$7\frac{3}{8}$	$\frac{1}{2}$	.36	.54	.80	75
76	$\frac{1}{2}$ & $\frac{5}{8}$	$7\frac{5}{8}$	$\frac{1}{2}$	.44	.65	.96	76
77	$\frac{1}{6}$ & $\frac{5}{8}$	$9\frac{1}{16}$	$\frac{1}{6}$	.44	.65	.96	77
78	$\frac{1}{6}$ & $\frac{3}{4}$	$9\frac{1}{16}$	$\frac{1}{6}$	.56	.80	1.15	78
79	$\frac{5}{16}$ & $\frac{3}{4}$	$10\frac{9}{16}$	$\frac{5}{16}$	.56	.80	1.15	79
80	$\frac{5}{16}$ & $\frac{7}{8}$	$10\frac{9}{16}$	$\frac{5}{16}$	.72	1.00	1.40	80
81	$\frac{3}{8}$ & $\frac{7}{8}$	$12\frac{1}{16}$	$\frac{3}{8}$	.72	1.00	1.40	81
82	$\frac{4}{7}$ & $1$	$12\frac{1}{16}$	$\frac{4}{7}$	.98	1.30	1.75	82
83	$\frac{8}{7}$ & $1$	$12\frac{5}{8}$	$\frac{8}{7}$	.98	1.30	1.75	83
84	$\frac{8}{7}$ & $1\frac{1}{8}$	$12\frac{5}{8}$	$\frac{8}{7}$	1.35	1.75	2.25	84

## TRIPLE HEAD WRENCHES

DROP FORGED



No.	For U.S. Standard Nuts, Size Bolt	For Set Screws Sizes	Extreme Length	Thickness Heads	PRICE EACH			No.
					Unfinished	Semi-finished	Finished	
894A	$\frac{5}{16}$ , $\frac{3}{8}$ , $\frac{1}{2}$		$5\frac{5}{16}$	$\frac{3}{16}$	\$0.40	\$0.56	\$0.80	894A
894B	$\frac{5}{16}$ , $\frac{7}{16}$ , $\frac{1}{2}$		$5\frac{5}{16}$	$\frac{3}{16}$	.40	.56	.80	894B
894C	$\frac{8}{15}$ , $\frac{1}{6}$ , $\frac{2}{3}$		$5\frac{5}{16}$	$\frac{3}{16}$	.40	.56	.80	894C
894D	$\frac{1}{2}$ , $\frac{5}{8}$ , $\frac{3}{4}$		$5\frac{5}{16}$	$\frac{3}{16}$	.40	.56	.80	894D
894E	$\frac{9}{16}$ , $\frac{5}{8}$ , $\frac{3}{4}$		$5\frac{5}{16}$	$\frac{3}{16}$	.40	.56	.80	894E

Be particular when ordering to state whether unfinished, semi-finished or finished are wanted.  
See page 15 for description.



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## DOUBLE HEAD TOOL POST WRENCHES

DROP FORGED

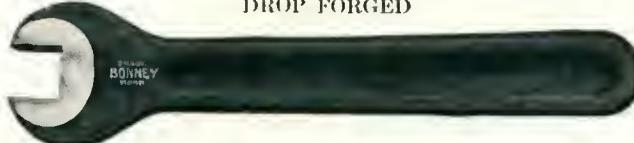


For U. S. Standard Nuts and Set Screws  
 Unfinished wrenches have openings milled and holes broached

No.	Open End for U. S. Standard Nut		Closed End for Set Screw, Size	Extreme Length	Thickness of Heads	PRICE EACH			No.
	Size Bolt	Opening Milled				Un- finished	Semi- finished	Finishe	
124	$\frac{3}{8}$	$\frac{11}{16}$	$\frac{9}{16}$	$6\frac{1}{2}$	$\frac{1}{2} \& \frac{5}{8}$	\$0.48	\$0.66	\$0.96	124
129	$\frac{1}{2}$	$\frac{7}{8}$	$\frac{7}{16}$	7	$\frac{9}{16} \& \frac{5}{8}$	.52	.72	1.04	129
130	$\frac{1}{2}$	$\frac{7}{8}$	$\frac{1}{2}$	7	$\frac{1}{2} \& \frac{5}{8}$	.52	.72	1.04	130
131	$\frac{1}{2}$	$\frac{7}{8}$	$\frac{9}{16}$	7	$\frac{9}{16} \& \frac{5}{8}$	.52	.72	1.04	131
132	$\frac{1}{2}$	$\frac{7}{8}$	$\frac{5}{16}$	7	$\frac{9}{16} \& \frac{9}{16}$	.52	.72	1.04	132
139	$\frac{1}{2}$	$1\frac{1}{16}$	$\frac{8}{16}$	$7\frac{1}{2}$	$\frac{5}{16} \& \frac{11}{16}$	.60	.82	1.16	139
140	$\frac{1}{2}$	$1\frac{1}{16}$	$\frac{3}{16}$	8	$\frac{11}{16} \& \frac{11}{16}$	.72	.97	1.34	140
143	$\frac{3}{4}$	$1\frac{1}{16}$	$\frac{4}{16}$	9	$\frac{3}{16} \& \frac{3}{16}$	.90	1.20	1.60	143
144	$\frac{3}{4}$	$1\frac{1}{4}$	$\frac{7}{8}$	9	$\frac{3}{16} \& \frac{3}{16}$	.90	1.20	1.60	144

## SINGLE HEAD SET SCREW WRENCHES

DROP FORGED



Straight Opening

Any one of these wrenches can be milled one size larger or smaller if desired

No.	For Set Screw, Size	Extreme Length	Thickness of Head	PRICE EACH			No.
				Un- finished	Semi- finished	Finishe	
280	$\frac{3}{5}$	3	$\frac{3}{16}$	\$0.10	\$0.14	\$0.23	280
281	$\frac{4}{5}$	$3\frac{3}{4}$	$\frac{7}{32}$	.12	.17	.27	281
282	$\frac{5}{5}$	$4\frac{1}{2}$	$\frac{1}{4}$	.14	.21	.31	282
283	$\frac{3}{5}$	$5\frac{3}{8}$	$\frac{5}{16}$	.17	.25	.37	283
284	$\frac{7}{16}$	6	$\frac{7}{32}$	.21	.31	.45	284
285	$\frac{9}{16}$	$6\frac{3}{4}$	$\frac{7}{16}$	.26	.38	.54	285
286	$\frac{9}{16}$	$7\frac{1}{2}$	$\frac{1}{2}$	.31	.45	.65	286
287	$\frac{9}{16}$	8	$\frac{9}{16}$	.38	.65	.80	287
288	$\frac{9}{16}$	9	$\frac{9}{16}$	.48	.68	.98	288
289	$\frac{1}{2}$	$10\frac{1}{2}$	$\frac{11}{16}$	.60	.84	1.20	289
290	1	12	$\frac{3}{2}$	.80	1.10	1.48	290
291	$1\frac{1}{8}$	12	$\frac{11}{16}$	1.10	1.40	1.80	291

Be particular when ordering to state whether unfinished, semi-finished or finished are wanted.  
 See page 15 for description.



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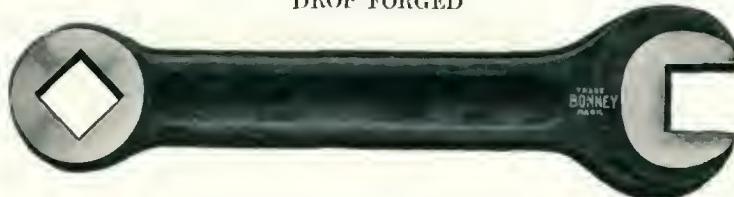
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## DOUBLE HEAD SET SCREW TOOL POST WRENCHES

DROP FORGED

Holes broached. Closed end.  $22\frac{1}{2}^{\circ}$  angle. Open end straight.

No.	Open End for Set Screws, Size, Inches	Closed End for Set Screws, Size, Inches	Length Over All, Inches	PRICE EACH			No.
				Un- finished	Semi- finished	Finished	
201	$\frac{7}{8}$	$\frac{7}{8}$	$5\frac{1}{4}$	\$0.40	<b>\$0.56</b>	\$0.80	201
202	$\frac{9}{16}$	$\frac{9}{16}$	6	.44	.62	.88	202
203	$\frac{1}{2}$	$\frac{1}{2}$	6	.44	.62	.88	203
204	$\frac{11}{16}$	$\frac{11}{16}$	$6\frac{3}{4}$	.52	.72	1.00	204
205	$\frac{13}{16}$	$\frac{13}{16}$	$6\frac{3}{4}$	.52	.72	1.00	205
206	$\frac{3}{4}$	$\frac{3}{4}$	$7\frac{1}{2}$	.60	.82	1.16	206

## SINGLE HEAD BOX WRENCHES

DROP FORGED

 $22\frac{1}{2}^{\circ}$  Angle

Unfinished Wrenches have Broached Opening

No.	For Set Screw, Size	Length	Thickness of Head	PRICE EACH			No.
				Un- finished	Semi- finished	Finished	
107	$\frac{3}{8}$	3	$\frac{1}{4}$	\$0.11	<b>\$0.15</b>	\$0.23	107
108	$\frac{4}{5}$	$3\frac{3}{8}$	$\frac{9}{16}$	.12	.17	.27	108
109	$\frac{5}{8}$	$3\frac{3}{4}$	$\frac{5}{16}$	.14	.20	.31	109
110	$\frac{3}{4}$	$4\frac{1}{4}$	$\frac{7}{16}$	.16	.24	.35	110
111	$\frac{7}{8}$	$4\frac{7}{8}$	$\frac{7}{16}$	.19	.28	.40	111
112	$\frac{9}{10}$	$5\frac{1}{2}$	$\frac{13}{16}$	.23	.34	.48	112
113	$\frac{9}{16}$	$6\frac{1}{4}$	$\frac{1}{2}$	.28	.41	.58	113
114	$\frac{11}{16}$	7	$\frac{9}{16}$	.35	.50	.70	114
115	$\frac{13}{16}$	8	$\frac{5}{8}$	.44	.62	.85	115
116	$\frac{7}{8}$	9	$\frac{11}{16}$	.60	.81	1.10	116
117	1	10	$\frac{3}{4}$	.80	<b>1.05</b>	1.40	117

Be particular when ordering to state whether unfinished, semi-finished or finished are wanted.  
See page 15 for description.



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## THIN CHECK NUT WRENCHES

DROP FORGED

15° Angle, Single Head, Very Thin  
For Check, Jam or Lock Nuts

No.	For U. S. Standard Nut; Size Bolts	Open- ing, Milled	Ex- treme Length	Thick- ness Head	PRICE EACH			No.
					Un- finished	Semi- finished	Finished	
799	$\frac{1}{4}$	$\frac{1}{2}$	4	$\frac{5}{32}$	\$0.12	<b>\$0.18</b>	\$0.26	799
800	$\frac{5}{16}$	$\frac{19}{32}$	4 $\frac{1}{4}$	$\frac{11}{32}$	.15	.22	.32	800
801	$\frac{1}{2}$	$\frac{1}{2}$	5 $\frac{1}{8}$	$\frac{6}{32}$	.18	.26	.38	801
802	$\frac{7}{16}$	$\frac{25}{32}$	5 $\frac{7}{8}$	$\frac{7}{32}$	.22	.32	.45	802
803	$\frac{1}{2}$	$\frac{7}{8}$	6 $\frac{5}{8}$	$\frac{1}{4}$	.26	.38	.54	803
804	$\frac{9}{16}$	$\frac{31}{32}$	7 $\frac{3}{8}$	$\frac{9}{32}$	.31	.45	.64	804
805	$\frac{5}{8}$	$\frac{17}{16}$	8 $\frac{1}{4}$	$\frac{5}{32}$	.38	.54	.76	805
806	$\frac{3}{4}$	$\frac{1}{4}$	10	$\frac{3}{8}$	.48	.68	.94	806
807	$\frac{7}{8}$	$\frac{17}{16}$	11 $\frac{1}{2}$	$\frac{7}{16}$	.68	.92	1.25	807
808	1	$1\frac{5}{8}$	13 $\frac{1}{4}$	$\frac{1}{2}$	1.00	<b>1.30</b>	1.70	808

## THIN CHECK NUT WRENCHES

DROP FORGED



"Thin," Double Head, 15° Angle

No.	For U. S. Standard Nuts; Size Bolts	Openings, Milled	Extreme Length	Thickness of Heads	PRICE EACH			No.
					Un- finished	Semi- finished	Finished	
819	$\frac{3}{16}$ & $\frac{1}{4}$	$\frac{13}{32}$ & $\frac{1}{2}$	4 $\frac{3}{8}$	$\frac{9}{32}$ & $\frac{5}{32}$	\$0.17	<b>\$0.25</b>	\$0.38	819
820	$\frac{3}{16}$ & $\frac{5}{16}$	$\frac{13}{32}$ & $\frac{19}{32}$	4 $\frac{3}{8}$	$\frac{9}{32}$ & $\frac{3}{32}$	.17	.25	.38	820
821	$\frac{1}{4}$ & $\frac{1}{2}$	$\frac{1}{2}$ & $\frac{25}{32}$	4 $\frac{3}{8}$	$\frac{6}{32}$ & $\frac{3}{32}$	.17	.25	.38	821
822	$\frac{1}{4}$ & $\frac{3}{8}$	$\frac{1}{2}$ & $\frac{15}{32}$	5 $\frac{1}{8}$	$\frac{5}{32}$ & $\frac{1}{32}$	.22	.32	.48	822
823	$\frac{5}{16}$ & $\frac{7}{8}$	$\frac{19}{32}$ & $\frac{15}{32}$	5 $\frac{1}{2}$	$\frac{3}{32}$ & $\frac{1}{16}$	.22	.32	.48	823
824	$\frac{5}{16}$ & $\frac{1}{2}$	$\frac{19}{32}$ & $\frac{25}{32}$	5 $\frac{1}{2}$	$\frac{5}{32}$ & $\frac{1}{16}$	.22	.32	.48	824
825	$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{11}{32}$ & $\frac{25}{32}$	6 $\frac{7}{8}$	$\frac{3}{32}$ & $\frac{3}{32}$	.28	.40	.60	825
826	$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{11}{32}$ & $\frac{1}{8}$			.28	.40	.60	826
827	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{25}{32}$ & $\frac{1}{8}$			.28	.40	.60	827
828	$\frac{7}{16}$ & $\frac{9}{16}$	$\frac{25}{32}$ & $\frac{31}{32}$	8 $\frac{1}{2}$	$\frac{7}{32}$ & $\frac{9}{32}$	.40	.56	.80	828
829	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{7}{8}$ & $\frac{1}{2}$			.40	.56	.80	829
830	$\frac{7}{16}$ & $\frac{5}{8}$	$\frac{7}{8}$ & $\frac{1}{16}$			.40	.56	.80	830
831	$\frac{3}{8}$ & $\frac{5}{8}$	$\frac{31}{32}$ & $\frac{1}{16}$	10 $\frac{3}{8}$	$\frac{9}{32}$ & $\frac{5}{32}$	.60	.84	1.15	831
832	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{31}{32}$ & $\frac{1}{4}$			.60	.84	1.15	832
833	$\frac{5}{8}$ & $\frac{3}{4}$	$1\frac{1}{16}$ & $1\frac{1}{4}$			.60	.84	1.15	833
834	$\frac{9}{8}$ & $\frac{7}{8}$	$1\frac{1}{16}$ & $1\frac{1}{16}$	12 $\frac{5}{8}$	$\frac{5}{16}$ & $\frac{7}{16}$	1.00	<b>1.30</b>	1.75	834
835	$\frac{3}{4}$ & $\frac{7}{8}$	$1\frac{1}{4}$ & $1\frac{1}{16}$			1.00	<b>1.30</b>	1.75	835
836	$\frac{3}{4}$ & 1	$1\frac{1}{4}$ & $1\frac{5}{8}$			1.00	<b>1.30</b>	1.75	836

Be particular when ordering to state whether unfinished, semi-finished or finished are wanted.  
See page 15 for description.

Pages marked with the ace trade mark show tools designed particularly for automotive purposes



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## GENERAL PURPOSE WRENCHES

DROP FORGED

22 $\frac{1}{2}$ ° Angle

For Carriage and Automobile Builders and for General Service in which a long, light wrench is required.

Milled regularly to dimensions shown below.

Can be milled to special combinations when required.

No.	Openings Finished Inches	Extreme Length Inches	Thickness of Heads, Inches	PRICE EACH			No.
				Un- finished	Semi- finished	Finished	
500	$\frac{3}{8}$ & $\frac{1}{2}$	6 $\frac{1}{4}$	$\frac{7}{32}$	\$0.18	\$0.27	\$0.38	500
500A	$\frac{3}{8}$ & $\frac{1}{2}$	6 $\frac{1}{4}$	$\frac{7}{32}$	.18	.27	.38	500A
500B	$\frac{3}{8}$ & $\frac{1}{2}$	6 $\frac{1}{4}$	$\frac{7}{32}$	.18	.27	.38	500B
500C	$\frac{1}{4}$ & $\frac{1}{2}$	6 $\frac{1}{4}$	$\frac{7}{32}$	.18	.27	.38	500C
501	$\frac{1}{2}$ & $\frac{5}{8}$	7 $\frac{1}{8}$	$\frac{1}{4}$	.23	.34	.47	501
501A	$\frac{1}{2}$ & $\frac{9}{16}$	7 $\frac{1}{8}$	$\frac{1}{4}$	.23	.34	.47	501A
501B	$\frac{1}{2}$ & $\frac{11}{16}$	7 $\frac{1}{8}$	$\frac{1}{4}$	.23	.34	.47	501B
501C	$\frac{3}{8}$ & $\frac{3}{4}$	7 $\frac{1}{8}$	$\frac{1}{4}$	.23	.34	.47	501C
502	$\frac{9}{16}$ & $\frac{11}{16}$	8 $\frac{1}{4}$	$\frac{5}{16}$	.29	.43	.58	502
502A	$\frac{1}{2}$ & $\frac{11}{16}$	8 $\frac{1}{4}$	$\frac{5}{16}$	.29	.43	.58	502A
502B	$\frac{5}{8}$ & $\frac{11}{16}$	8 $\frac{1}{4}$	$\frac{5}{16}$	.29	.43	.58	502B
502C	$\frac{9}{16}$ & $\frac{3}{2}$	8 $\frac{1}{4}$	$\frac{5}{16}$	.29	.43	.58	502C
503	$\frac{3}{8}$ & $\frac{7}{8}$	9 $\frac{1}{4}$	$\frac{7}{32}$	.38	.55	.72	503
503A	$\frac{3}{8}$ & $\frac{13}{16}$	9 $\frac{1}{4}$	$\frac{7}{32}$	.38	.55	.72	503A
503B	$\frac{2}{5}$ & $\frac{7}{8}$	9 $\frac{1}{4}$	$\frac{7}{32}$	.38	.55	.72	503B
503C	$\frac{1}{2}$ & $\frac{3}{4}$	9 $\frac{1}{4}$	$\frac{7}{32}$	.38	.55	.72	503C
504	$\frac{5}{8}$ & 1	10 $\frac{3}{8}$	$\frac{7}{16}$	.50	.70	.90	504
504A	$\frac{15}{16}$ & 1	10 $\frac{3}{8}$	$\frac{7}{16}$	.50	.70	.90	504A
504B	$\frac{7}{8}$ & $1\frac{1}{16}$	10 $\frac{3}{8}$	$\frac{7}{16}$	.50	.70	.90	504B
505	1 & $1\frac{1}{8}$	12	$\frac{1}{2}$	.70	1.00	1.30	505
505A	1 & $1\frac{1}{4}$	12	$\frac{1}{2}$	.70	1.00	1.30	505A
505B	$1\frac{1}{16}$ & $1\frac{1}{4}$	12	$\frac{1}{2}$	.70	1.00	1.30	505B
505C	$1\frac{1}{8}$ & $1\frac{1}{4}$	12	$\frac{1}{2}$	.70	1.00	1.30	505C

Be particular when ordering to state whether unfinished, semi-finished or finished are wanted.  
See page 15 for description.



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## TEXTILE MACHINE WRENCHES

DROP FORGED

Double Head, 22 $\frac{1}{2}$ ° Angle

For Standard Hexagon or Square Nuts

Number	Length, Inches	Thick- ness of Head	For Standard Hex. Nuts: Size Bolts	Size of Openings	PRICE EACH			Num- ber
					Unfin- ished	Semi- fin- ished	Fin- ished	
550	4 $\frac{1}{2}$	$\frac{1}{4}$	$\frac{5}{16} \times \frac{1}{4}$	$\frac{5}{16} \times \frac{3}{8}$	.17	\$0.25	.38	550
550A	4 $\frac{1}{2}$	$\frac{1}{4}$	$\frac{5}{16} \times \frac{1}{4}$	$\frac{5}{16} \times \frac{3}{8}$	.17	.25	.38	550A
551	5	$\frac{3}{8}$	$\frac{5}{16} \times \frac{1}{4}$	$\frac{5}{16} \times \frac{3}{8}$	.21	.31	.46	551
551A	5	$\frac{3}{8}$	$\frac{5}{16} \times \frac{1}{4}$	$\frac{5}{16} \times \frac{3}{8}$	.21	.31	.46	551A
552	7	$\frac{3}{8}$	$\frac{5}{16} \times \frac{1}{4}$	$\frac{5}{16} \times \frac{3}{8}$	.27	.40	.60	552
552A	7	$\frac{3}{8}$	$\frac{5}{16} \times \frac{1}{4}$	$\frac{5}{16} \times \frac{3}{8}$	.27	.40	.60	552A
553	8	$\frac{11}{16}$	$\frac{7}{16} \times \frac{1}{4}$	$\frac{7}{16} \times \frac{3}{8}$	.36	.53	.78	553
553A	8	$\frac{11}{16}$	$\frac{7}{16} \times \frac{1}{4}$	$\frac{7}{16} \times \frac{3}{8}$	.36	.53	.78	553A
554	9 $\frac{1}{2}$	$\frac{11}{16}$	$\frac{7}{16} \times \frac{1}{4}$	$\frac{7}{16} \times 1\frac{1}{16}$	.50	.72	1.05	554
554A	9 $\frac{1}{2}$	$\frac{11}{16}$	$\frac{7}{16} \times \frac{1}{4}$	$\frac{7}{16} \times 1\frac{1}{16}$	.50	.72	1.05	554A
555	10 $\frac{1}{2}$	$\frac{7}{8}$	$\frac{11}{16} \times \frac{1}{4}$	$1\frac{1}{16} \times 1\frac{1}{16}$	.68	.96	1.40	555
555A	10 $\frac{1}{2}$	$\frac{7}{8}$	$\frac{11}{16} \times \frac{1}{4}$	$1\frac{1}{16} \times 1\frac{1}{16}$	.68	.96	1.40	555A

DOUBLE HEAD "S" WRENCHES  
DROP FORGED22 $\frac{1}{2}$ ° Angle

Number	Size of Openings, Inches	Thickness of Head, Inches	Length Over All, Inches	PRICE EACH			Number
				Unfinished	Semi- fin- ished	Fin- ished	
220	$\frac{3}{8} \& \frac{7}{16}$	$\frac{1}{8}$	4	\$0.15	\$0.22	.32	220
221	$\frac{3}{8} \& \frac{11}{16}$	$\frac{1}{8}$	5	.27	.37	.52	221
222	$\frac{3}{8} \& \frac{11}{16}$	$\frac{1}{8}$	6	.41	.57	.77	222
223	$\frac{3}{8} \& 1$	$\frac{1}{8}$	7	.57	.76	1.06	223
224	1 & $1\frac{1}{8}$	$\frac{1}{8}$	8	.72	.95	1.35	224
225	$1\frac{1}{8} \& 1\frac{1}{8}$	$\frac{1}{8}$	9	.90	1.20	1.65	225

Be particular when ordering to state whether unfinished, semi-finished or finished are wanted.  
See page 15 for description.



TRADE

BONNEY

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## TEXTILE MACHINE WRENCHES

DROP FORGED



In Sets

## SET No. 10

Each set consists of one each Textile Wrench, Nos. 550, 551, 552, 553, 554 and 555.	PRICES			EXPORT PACKING			
	Price per set, Unfin.	Price per set, Semi-fin.	Price per set, Finished	No. sets to case	Net Wght lbs.	Gross Wght lbs.	Measurements each case
Cardboard box.....	\$2.10	<b>\$3.17</b>	\$4.67	50	225	265	12 $\frac{3}{4}$ x 14 $\frac{1}{2}$ x 24 $\frac{1}{2}$
Wooden box, slide cover	2.35	<b>3.33</b>	4.83	50	241	285	13 $\frac{1}{2}$ x 20 $\frac{1}{2}$ x 19 $\frac{1}{2}$
Canvas case.....	2.64	<b>3.62</b>	5.12	50	225	265	12 $\frac{1}{2}$ x 14 $\frac{1}{2}$ x 24 $\frac{1}{2}$

## SELECTED SET No. 12

Set of five wrenches containing openings for every size bolt from  $\frac{3}{16}$  to  $\frac{7}{8}$ .

Each set consists of one each Textile Wrench, Nos. 550, 551, 553A, 554 and 555A.	PRICES			EXPORT PACKING			
	Price per set, Unfin.	Price per set, Semi-fin.	Price per set, Finished	No. sets to case	Net Wght lbs.	Gross Wght lbs.	Measurements each case
Cardboard box.....	\$1.92	<b>\$2.77</b>	\$4.07	50	200	240	12 $\frac{3}{4}$ x 14 $\frac{1}{2}$ x 24 $\frac{1}{2}$
Wooden box, slide cover	2.08	<b>2.93</b>	4.23	50	216	260	13 $\frac{1}{2}$ x 20 $\frac{1}{2}$ x 19 $\frac{1}{2}$
Canvas case.....	2.37	<b>3.22</b>	4.52	50	200	240	12 $\frac{1}{2}$ x 14 $\frac{1}{2}$ x 24 $\frac{1}{2}$

Be particular when ordering to state whether unfinished, semi-finished or finished are wanted.  
See page 15 for description.



TRADE

BONNEY

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## CONSTRUCTION WRENCHES AND CAR BUILDERS' WRENCHES

DROP FORGED



**15° Angle**

Unfinished wrenches have milled openings. Special sizes milled to order.

The round tang is for bringing bolt or rivet holes into line, and can be inserted into convenient openings.

No.	For U. S. Standard Nut; Bolt Size	Openings Finish'd	Length	Thickness of Head	PRICE EACH			No.
					Un- finished	Semi- finished	Finished	
451	$\frac{3}{8}$	$1\frac{1}{16}$	9	$\frac{11}{16}$	\$0.35	<b>\$0.45</b>	.....	451
452	$\frac{1}{2}$	$1\frac{7}{8}$	$11\frac{1}{2}$	$\frac{7}{16}$	.45	.58	.....	452
453	$\frac{9}{16}$	$1\frac{11}{16}$	$12\frac{1}{2}$	$\frac{1}{2}$	.45	.58	.....	453
454	$\frac{5}{8}$	$1\frac{1}{16}$	14	$\frac{9}{16}$	.62	.80	.....	454
455	$\frac{3}{4}$	$1\frac{1}{16}$	16	$\frac{5}{8}$	.86	<b>1.10</b>	.....	455
456	$\frac{7}{8}$	$1\frac{7}{16}$	$17\frac{1}{2}$	$\frac{11}{16}$	1.18	<b>1.50</b>	.....	456
457	1	$1\frac{1}{8}$	19	$\frac{3}{4}$	1.60	<b>2.10</b>	.....	457

## STRUCTURAL WRENCHES

DROP FORGED

Same as above, but with same opening and off-set heads.

No.	For U. S. Standard Nut; Size Bolt	Opening	Extreme Length	Thickness of Head	PRICE EACH			No.
					Un- finished	Semi- finished	Finished	
481	$\frac{3}{8}$	$2\frac{3}{16}$	9	$\frac{11}{16}$	\$0.40	<b>\$0.52</b>	481	
482	$\frac{1}{2}$	$1\frac{1}{16}$	$11\frac{1}{2}$	$\frac{7}{16}$	.52	.70	482	
483	$\frac{9}{16}$	$1\frac{1}{16}$	$12\frac{1}{4}$	$\frac{3}{8}$	.52	.70	483	
484	$\frac{5}{8}$	$1\frac{1}{8}$	$14\frac{1}{8}$	$\frac{9}{16}$	.74	.98	484	
485	$\frac{3}{4}$	$1\frac{5}{16}$	16	$\frac{5}{8}$	1.02	<b>1.34</b>	485	
486	$\frac{7}{8}$	$1\frac{1}{16}$	$17\frac{1}{2}$	$\frac{11}{16}$	1.40	<b>1.80</b>	486	
487	1	$1\frac{1}{16}$	19	$\frac{3}{4}$	1.90	<b>2.50</b>	487	

Be particular when ordering to state whether unfinished, semi-finished or finished are wanted. See page 15 for description.



TRADE

BONNEY

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## DOUBLE HEAD CAR WRENCHES

DROP FORGED



22½° Angle, Long Leverage

Unfinished are milled only.

Semi-finished are milled, edges ground and case-hardened all over.  
Bright heads.

In stock for U. S. Standard nuts.

Finished wrenches can be supplied at double unfinished price.

No.	For U. S. Standard Nuts; Size Bolts	Openings	Extreme Length	Thickness Heads	PRICE EACH		No.
					Un- finisheD	Semi- finisheD	
367	3 8 & 1 1/2	2 3/8 & 2 9/16	12	7/16 & 1 1/2	\$0.55	\$0.75	367
370	2 1/2 & 3 3/8	1 1/2 & 1 5/8	19	1 1/2 & 1 1/2	.95	1.25	370
371	1 1/2 & 4 1/2	1 5/8 & 1 1/2	19	1 1/2 & 1 1/2	1.15	1.55	371
372	2 1/2 & 7 7/8	1 5/8 & 1 1/2	20	1 1/2 & 1 1/2	1.15	1.55	372
373	5 5/8 & 3 3/4	1 1/8 & 1 5/16	20	1 1/2 & 1 1/2	1.15	1.55	373
374	8 8/8 & 7 7/8	1 1/2 & 1 1/2	21	1 1/2 & 1 1/2	1.35	1.85	374
375	8 5/8 & 1	1 1/8 & 1 11/16	21	1 1/2 & 1 1/2	1.35	1.85	375
376	8 5/8 & 7 7/8	1 5/8 & 1 1/2	21	1 1/2 & 1 1/2	1.35	1.85	376
377	3 3/4 & 1	1 1/6 & 1 11/16	22	1 1/2 & 1 1/2	1.65	2.25	377
378	3 3/4 & 1 1/8	1 1/6 & 1 1/2	22	1 1/2 & 1 1/2	1.65	2.25	378
379	8 7/8 & 1	1 1/2 & 1 11/16	22	1 1/2 & 1 1/2	1.65	2.25	379
380	8 7/8 & 1 1/8	1 1/2 & 1 7/8	23	1 1/2 & 1 1/2	1.95	2.65	380
381	8 7/8 & 1 1/4	1 1/2 & 2 1/16	23	1 1/2 & 1 1/2	1.95	2.65	381
382	1 & 1 1/8	1 11/16 & 1 7/8	23	1 1/2 & 1 1/2	1.95	2.65	382
383	1 & 1 1/4	1 1/6 & 2 1/16	24	1 1/2 & 1 1/6	2.25	3.15	383
385	1 1/8 & 1 1/4	1 1/8 & 2 1/16	24	1 1/2 & 1 1/6	2.25	3.15	385
387	1 1/8 & 1 1/2	1 1/8 & 2 7/16	25	1 1/2 & 1 1/4	3.40	4.50	387
389	1 1/4 & 1 1/2	2 1/16 & 2 7/16	25	1 1/2 & 1 1/4	3.40	4.50	389

Be particular when ordering to state whether unfinished, semi-finished or finished are wanted.  
See page 15 for description.



TRADE

BONNEY

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## GENERAL PURPOSE WRENCHES IN SETS DROP FORGED



### SET A

Contains 5 Wrenches, one each of the following:

No.	Manufacturers' Standard Nuts, Size Bolts, Inches	Openings Finished, Inches	Extreme Length, Inches	Thickness of Heads, Inches	PRICE EACH			No.
					Unfinished	Semi-finished	Finished	
500	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{3}{8}$ & $\frac{1}{2}$	$6\frac{1}{2}$	$\frac{7}{16}$	\$0.18	<b>\$0.27</b>	\$0.38	500
501	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{1}{2}$ & $\frac{3}{4}$	$7\frac{1}{2}$	$\frac{1}{4}$	.23	<b>.34</b>	.47	501
502	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{5}{8}$ & $\frac{1}{2}$	$8\frac{1}{2}$	$\frac{5}{16}$	.29	<b>.43</b>	.58	502
503	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{9}{16}$ & $\frac{1}{2}$	$9\frac{1}{2}$	$\frac{7}{16}$	.38	<b>.55</b>	.72	503
504	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{1}{2}$ & 1	$10\frac{1}{2}$	$\frac{1}{16}$	.50	<b>.70</b>	.90	504
Packed one set in cardboard box . . . . .					1.58	<b>2.29</b>	3.05	
Packed one set in wooden box . . . . .					1.74	<b>2.45</b>	3.21	
Packed one set in canvas roll . . . . .					2.03	<b>2.74</b>	3.50	

### SET B

Contains 3 Wrenches, one each of the following:

No.	Manufacturers' Standard Nuts, Size Bolts, Inches	Openings Finished, Inches	Extreme Length, Inches	Thickness of Heads, Inches	PRICE EACH			No.
					Unfinished	Semi-finished	Finished	
500	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{3}{8}$ & $\frac{1}{2}$	$6\frac{1}{2}$	$\frac{7}{16}$	\$0.18	<b>\$0.27</b>	\$0.38	500
502	$\frac{1}{4}$ & $\frac{3}{8}$	$\frac{5}{8}$ & $\frac{1}{2}$	$8\frac{1}{2}$	$\frac{1}{16}$	.29	<b>.43</b>	.58	502
504	$\frac{7}{16}$ & $\frac{1}{2}$	$\frac{1}{2}$ & 1	$10\frac{1}{2}$	$\frac{1}{16}$	.50	<b>.70</b>	.90	504
Packed one set in cardboard box . . . . .					.97	<b>1.40</b>	1.86	
Packed one set in wooden box . . . . .					1.11	<b>1.54</b>	2.00	
Packed one set in canvas roll . . . . .					1.32	<b>1.75</b>	2.21	

### SET D

Contains 5 Wrenches, for A. L. A. M. Standard Nuts and Cap Screws, one each of the following:

No.	For A.L.A.M. Standard Nuts and Cap Screws, Size of Bolts, or Cap Screws	Openings Finished, Inches	Extreme Length, Inches	Thickness of Heads, Inches	PRICE EACH			No.
					Unfinished	Semi-finished	Finished	
500	$\frac{1}{8}$ & $\frac{1}{4}$	$\frac{3}{8}$ & $\frac{1}{2}$	$6\frac{1}{2}$	$\frac{7}{16}$	\$0.18	<b>\$0.27</b>	\$0.38	500
502A	$\frac{1}{4}$ & $\frac{5}{16}$	$\frac{5}{8}$ & $1\frac{1}{2}$	$8\frac{1}{2}$	$\frac{1}{16}$	.29	<b>.43</b>	.58	502A
503	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{9}{16}$ & $\frac{1}{2}$	$9\frac{1}{2}$	$\frac{7}{16}$	.38	<b>.55</b>	.72	503
504A	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{1}{2}$ & 1	$10\frac{1}{2}$	$\frac{1}{16}$	.50	<b>.70</b>	.90	504A
505C	$\frac{7}{16}$ & $\frac{1}{2}$	$1\frac{1}{2}$ & $1\frac{1}{4}$	12	$\frac{1}{16}$	.70	<b>1.00</b>	1.30	505C
Packed one set in cardboard box . . . . .					2.05	<b>2.95</b>	3.88	
Packed one set in wooden box . . . . .					2.21	<b>3.11</b>	4.04	
Packed one set in canvas roll . . . . .					2.50	<b>3.40</b>	4.33	

Bo particular when ordering to state whether unfinished, semi-finished or finished are wanted.  
See page 15 for description.



TRADE

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## GENERAL PURPOSE WRENCHES IN SETS

DROP FORGED



## SET C

Contains 3 Wrenches, one each of the following:

No.	U. S. Standard Nuts, Size Bolts, Inches	Openings Finished, Inches	Extreme Length, Inches	Thickness of Heads, Inches	PRICE EACH			No.
					Unfinished	Semi-finished	Finished	
500B	$\frac{3}{8}$ & $\frac{1}{4}$	$\frac{3}{2}$ & $\frac{1}{2}$	$6\frac{1}{4}$	$\frac{3}{16}$	\$0.18	<b>\$0.27</b>	\$0.38	500B
501B	$\frac{1}{2}$ & $\frac{3}{8}$	$\frac{3}{2}$ & $\frac{1}{2}$	$7\frac{1}{4}$	$\frac{3}{16}$	.23	<b>.34</b>	.47	501B
503B	$\frac{1}{2}$ & $\frac{1}{2}$	$\frac{3}{2}$ & $\frac{1}{2}$	$9\frac{1}{4}$	$\frac{3}{16}$	.38	<b>.55</b>	.72	503B

Packed one set in cardboard box ..... .79 **1.16** 1.57  
 Packed one set in wooden box ..... .93 **1.30** 1.71  
 Packed one set in canvas roll ..... 1.14 **1.51** 1.92

## SET E

Contains 6 Wrenches, twelve much used openings, no duplicates, as follows:

No.	Openings Finished, Inches	Extreme Length, Inches	Thickness of Heads, Inches	PRICE EACH			No.
				Unfinished	Semi-finished	Finished	
500A	$\frac{3}{8}$ & $\frac{7}{16}$	$6\frac{1}{4}$	$\frac{3}{16}$	\$0.18	<b>\$0.27</b>	\$0.38	500A
501A	$\frac{1}{2}$ & $\frac{9}{16}$	$7\frac{1}{4}$	$\frac{3}{16}$	.23	<b>.34</b>	.47	501A
502B	$\frac{1}{2}$ & $\frac{11}{16}$	$8\frac{1}{4}$	$\frac{3}{16}$	.29	<b>.43</b>	.58	502B
503A	$\frac{1}{2}$ & $\frac{13}{16}$	$9\frac{1}{4}$	$\frac{3}{16}$	.38	<b>.55</b>	.72	503A
504	$\frac{1}{2}$ & $1\frac{1}{8}$	$10\frac{1}{4}$	$\frac{3}{16}$	.50	<b>.70</b>	.90	504
505C	$1\frac{1}{2}$ & $1\frac{1}{4}$	$12$	$\frac{3}{16}$	.70	<b>1.00</b>	1.30	505C

Packed one set in cardboard box ..... 2.28 **3.29** 4.35  
 Packed one set in wooden box ..... 2.44 **3.45** 4.51  
 Packed one set in canvas roll ..... 2.73 **3.74** 4.80

## SET F

Contains 6 Wrenches, twelve openings, no duplicates, as follows:

No.	Openings Finished, Inches	Extreme Length, Inches	Thickness of Heads, Inches	PRICE EACH			No.
				Unfinished	Semi-finished	Finished	
500C	$\frac{1}{2}$ & $\frac{13}{16}$	$6\frac{1}{4}$	$\frac{3}{16}$	\$0.18	<b>\$0.27</b>	\$0.38	500C
500A	$\frac{3}{8}$ & $\frac{7}{16}$	$6\frac{1}{4}$	$\frac{3}{16}$	.18	<b>.27</b>	.38	500A
501C	$\frac{1}{2}$ & $\frac{9}{16}$	$7\frac{1}{4}$	$\frac{3}{16}$	.23	<b>.34</b>	.47	501C
502C	$\frac{1}{2}$ & $\frac{11}{16}$	$8\frac{1}{4}$	$\frac{3}{16}$	.29	<b>.43</b>	.58	502C
503C	$\frac{1}{2}$ & $\frac{13}{16}$	$9\frac{1}{4}$	$\frac{3}{16}$	.38	<b>.55</b>	.72	503C
504B	$\frac{1}{2}$ & $1\frac{1}{8}$	$10\frac{1}{4}$	$\frac{3}{16}$	.50	<b>.70</b>	.90	504B

Packed one set in cardboard box ..... 1.76 **2.56** 3.43  
 Packed one set in wooden box ..... 1.92 **2.72** 3.59  
 Packed one set in canvas roll ..... 2.21 **3.01** 3.88

Be particular when ordering to state whether unfinished, semi-finished or finished are wanted.  
 See page 15 for description.

## BONNEY MALLEABLE GENERAL PURPOSE WRENCHES



These Wrenches are made of the highest grade malleable iron which gives plenty of strength for any ordinary purpose, and are carefully finished with polished heads. Each set consists of five wrenches, ten openings, packed in a strong individual carton, and there are Two Dozen Sets to the Case.

With each case is enclosed, FREE OF CHARGE, a SHOP CAP and a Sample "BONNEY BOX TOOL" which is strong enough to open the heaviest case, but so small that it can be conveniently carried in the pocket.

Price per case, \$12.00. Weight per case, 60 lbs.

## BONNEY MALLEABLE MACHINERY WRENCHES



These Wrenches are made of the same strong material as our Malleable General Purpose Wrenches; namely, of the highest grade of malleable iron carefully cast so that they are strong, tough and practically unbreakable. The heads are polished.

Each set consists of six wrenches, twelve openings, ranging from  $\frac{3}{8}$ " to  $1\frac{1}{4}$ " by sixteenths; packed one set to a carton, Twenty-four Sets to a Case.

Included with each case of twenty-four sets, FREE OF CHARGE, is a SHOP CAP and a sample BONNEY "JACK RABBIT" WRENCH, a very handy tool, light yet serviceable, containing openings for eight different sizes of nuts.

Price per case, \$12.00. Weight per case, 55 lbs.



TRADE

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## BONNEY MALLEABLE GENERAL PURPOSE WRENCHES



### Double Head 22½° Angle

These wrenches are made of the highest grade of malleable iron and are particularly designed for household, farm and automobile use. They are so constructed that it is practically impossible to break them with ordinary use. This is a particularly attractive and rapid selling line.

Packed for domestic trade, twenty-four sets to the case as shown on page 40.

No.	Openings Inches	Length, Inches	Price per Doz., Polished Heads	No.
A	3/8 x 1	5 1/2	\$0.80	A
B	9/16 x 5/8	6 1/2	1.00	B
C	11/16 x 3/4	7 3/4	1.20	C
D	15/16 x 7/8	8 3/8	1.40	D
E	1 1/16 x 1 1/8	9 1/4	1.60	E

Packed  $\frac{1}{2}$  doz. in cardboard box.

### PACKED IN SETS OF FIVE One each of sizes A—E, inclusive

One set packed in cardboard box with Polished Heads.....\$0.50

Weight each set,  $2\frac{1}{8}$  lbs.

### EXPORT PACKING OF MALLEABLE GENERAL PURPOSE WRENCHES

No. sets to case	Net Weight	Gross Weight	Measurements
100	209 lbs.	245 lbs.	36 x 13 1/2 x 17



TRADE

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**BONNEY MALLEABLE MACHINERY WRENCHES****Double Head 15°**

Bonney Malleable Machinery Wrenches are made of the same high grade material as Bonney Malleable General Purpose Wrenches. They are designed for use of such customers as prefer a 15° angle wrench to a 22½° angle wrench. They are slightly shorter than the wrenches for the same size openings in the General Purpose Series but are equally as strong and as well made. Packed for domestic trade, twenty-four sets to the case, as shown on page 41.

No.	Openings Inches	Length Inches	Price per Doz. Polished Heads	No.
F	3/8 x 7/16	3 3/8	\$0.65	F
G	1/2 x 9/16	4 1/8	.80	G
H	5/8 x 11/16	5 1/8	.95	H
I	3/4 x 13/16	6 1/8	1.10	I
J	7/8 x 1	7 1/8	1.20	J
K	1 1/8 x 1 1/4	8 1/8	1.30	K

Packed  $\frac{1}{2}$  doz. in cardboard box.
**PACKED IN SETS OF SIX  
One Each Size F—K, Inclusive**

One set packed in cardboard box with polished heads.....\$0.50

Weight each set, 2 lbs.

**EXPORT PACKING OF MALLEABLE  
MACHINERY WRENCHES**

No. sets to case	Net Weight	Gross Weight	Measurements
100	200 lbs.	235 lbs.	26 1/4 x 15 x 9 1/4



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## ALWAYS READY WRENCHES

DROP FORGED



Nickel Plated

These wrenches are drop-forged from special wrench steel, are carefully ground and polished and are hardened to withstand the severest strain. They have a large range of openings and for their compactness are very handy pocket tools.

The nickel plating is absolutely the best and is guaranteed not to chip or peel.

No.	Length	Holds Pipe	Wt. per doz.	Price per doz.
1	5½ in.	½ to ¾	6 lbs.	\$ 5.00
2	7 "	¾ " 1⅓	11 "	6.75
2½	9⅓ "	½ " 1⅓	25 "	10.50
3	11 "	¾ " 1⅓	37 "	16.00

Packed ½ doz. in cardboard box.



Black

The Black Always Ready Wrenches are the same in weight, length and capacity as the nickel plated, but are made with polished jaws which appear in relief.

No.	Length	Holds Pipe	Wt. per doz.	Price per doz.
1	5½ in.	½ to ¾	6 lbs.	\$ 4.50
2	7 "	¾ " 1⅓	11 "	6.25
2½	9⅓ "	½ " 1⅓	25 "	10.00
3	11 "	¾ " 1⅓	37 "	15.25

Packed ½ doz. in cardboard box.

EXPORT PACKING OF ALWAYS READY WRENCHES—SAME  
PACKING FOR BOTH FINISHES

Size	No. to case	Net Wt. Lbs.	Gross Wt. Lbs.	Measurements
1	12 doz.	72	87	22 x 12 x 8
2	15 "	167	190	22½ x 13¾ x 9¾
2½	15 "	375	415	24½ x 16 x 16
3	6 "	222	257	21½ x 14¾ x 13



TRADE

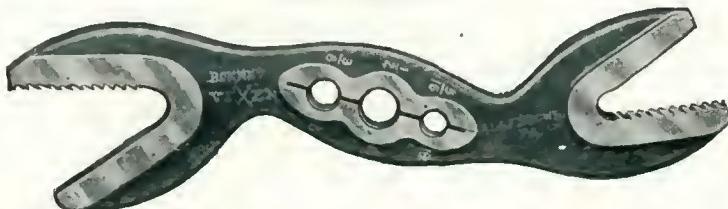
**BONNEY**

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**THE "VIXEN" WRENCH**

Trade Mark Registered

DROP FORGED



The "Vixen" Wrench is designed as a handy pocket tool for general use and around the automobile, tractor or farm machinery. The two ends are milled with teeth of capacity to turn pipe from  $\frac{1}{4}$ " to  $1\frac{1}{4}$ ". The tapped holes in the center are made to restore or clean threads on bolts that have become bruised or battered. The openings are not intended to be used for cutting new threads. Vixen Wrenches are drop-forged, ground, polished and hardened. Furnished in U. S. Standard Threads. Length over all,  $7\frac{3}{4}$ ".

**U. S. STANDARD THREADS  $\frac{5}{8}$ -18,  $\frac{1}{2}$ -13,  $\frac{3}{8}$ -16**

Finish	Weight per doz.	Price per doz.
Blue	11 lbs.	\$5.00

Packed  $\frac{1}{2}$  doz. in a cardboard box, 1 gross in a case.**THE "BABY VIXEN" WRENCH**

Trade Mark Registered

DROP FORGED



The "Baby Vixen" Wrenches are similar to "Vixen" Wrenches, but smaller in size. The teeth will turn pipe from  $\frac{1}{4}$ " to  $\frac{3}{4}$ ". The tapped holes are furnished in U. S. Standard threads. Length,  $5\frac{1}{2}$ ".

**U. S. STANDARD THREADS  $\frac{3}{8}$ -16,  $\frac{1}{4}$ -20,  $\frac{5}{16}$ -18**

Finish	Weight per doz.	Price per doz.
Blue	6 lbs.	\$4.50

Packed  $\frac{1}{2}$  doz. in a cardboard box, 1 gross in a case.



TRADE

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**BONNEY "CROCODILE" WRENCHES**

Trade Mark Registered

## STAMPED STEEL

Are handy for general use; they will turn nuts as well as round bars



Nos. 0S and 1S

Nos. 0S and 1S Crocodile Wrenches are stamped from high grade sheet steel. The teeth are milled and the jaws are carefully hardened. They have black satin finish and polished jaws.

No.	Length	Holds pipe	Holds round iron	Price per doz.	Wt. per doz.
0S	4"	1 1/8" to 1 1/4"	1 1/4" to 2 5/8"	\$3.00	1 1/4 lbs.
1S	5 3/4"	1 1/8" " 2 5/8"	1 1/4" " 3 1/4"	4.00	3 1/2 "

Packed 1 gross in a case.

## DROP FORGED



Nos. 1 1/2 and 1 3/4

Nos. 1 1/2 and 1 3/4 are drop-forged, teeth milled diagonally and jaws hardened and polished. The steel used in the manufacture of all drop-forged "Crocodile" Wrenches is high in carbon and of special analysis.

No.	Length	Holds pipe	Holds round iron	Price per doz.	Wt. per doz.
1 1/2	5 3/4"	1 1/8" to 3 8/16"	1 1/4" to 3 4/8"	\$4.50	4 lbs.
1 3/4	7"	1 1/8" " 3 1/4"	1 1/4" " 1 1/8"	8.00	8 1/2 "

1 gross in a case.



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**BONNEY "CROCODILE" WRENCHES**

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DROP FORGED



No.	Length inches	Holds pipe, inches	Holds round iron, inches	Price, per doz.	Weight per doz.
2.....	9.....	$\frac{3}{8}$ to $\frac{3}{4}$ .....	$\frac{1}{2}$ to 1.....	\$12.00....	13 lbs.
2 $\frac{1}{2}$ .....	12 $\frac{1}{2}$ .....	$\frac{3}{8}$ to 1.....	$\frac{3}{8}$ to $1\frac{1}{4}$ .....	18.00....	18 $\frac{1}{2}$ "
3.....	15.....	$\frac{1}{2}$ to $1\frac{1}{4}$ .....	$\frac{3}{4}$ to $1\frac{1}{4}$ .....	24.00....	36 "
4.....	21.....	$1\frac{1}{2}$ to 2.....	$1\frac{1}{2}$ to $2\frac{1}{2}$ .....	36.00....	78 "
4 $\frac{1}{2}$ .....	24.....	$1\frac{1}{2}$ to $2\frac{1}{2}$ .....	$1\frac{7}{8}$ to $3\frac{1}{2}$ .....	50.00....	114 "
5.....	27.....	2 to 3.....	$2\frac{1}{4}$ to $3\frac{1}{2}$ .....	60.00....	147 "

All of the above sizes packed bulk, except No. 2, which is packed  $\frac{1}{2}$  dozen to a box.

No. 10

**TWIN "CROCODILE"** Drop-Forged, teeth milled diagonally, and jaws hardened and polished. The steel used is high in carbon and of a special analysis.

No.	Length inches	Holds pipe, inches	Holds round iron inches	Price, per doz.	Weight, per doz.
10	10	$\frac{1}{8}$ to $\frac{3}{4}$	$\frac{1}{4}$ to 1	\$18.00	14 lbs.

Packed bulk.

**EXPORT PACKING OF "CROCODILE" WRENCHES**

Size	No. to case	Net Weight lbs.	Gross Weight lbs.	Measurements, inches
0.....	144 doz.....	180.....	209.....	32 x 11 $\frac{1}{2}$ x 9
1.....	36 ".....	126.....	156.....	22 x 12 x 8
21.....	36 ".....	126.....	156.....	22 x 12 x 8
1M.....	36 ".....	90.....	120.....	22 x 12 x 8
1 $\frac{1}{2}$ .....	50 ".....	212.....	256.....	32 x 18 x 12
1 $\frac{1}{4}$ .....	30 ".....	250.....	291.....	31 $\frac{1}{2}$ x 12 $\frac{1}{2}$ x 12
2.....	25 ".....	325.....	364.....	32 x 17 x 15 $\frac{3}{4}$
2 $\frac{1}{2}$ .....	20 ".....	368.....	405.....	32 x 12 $\frac{1}{2}$ x 14 $\frac{1}{2}$
3.....	10 ".....	360.....	398.....	24 $\frac{1}{2}$ x 14 $\frac{3}{8}$ x 17
4.....	3 ".....	234.....	262.....	23 x 14 $\frac{1}{2}$ x 10
4 $\frac{1}{2}$ .....	1 ".....	114.....	150.....	26 x 9 x 6 $\frac{1}{4}$
5.....	1 ".....	147.....	179.....	29 x 10 x 8 $\frac{3}{4}$
10 (Twin) ..	20 ".....	280.....	320.....	26 $\frac{3}{4}$ x 12 x 12



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**"CHAMPION" VISES**

Trade Mark Registered



Champion Vises are made especially for the most particular tool users and are warranted against defects and breakage.

They are manufactured in sizes from  $1\frac{1}{2}$  to 3-inch jaw with clamp base and some sizes in both clamp and swivel base designs.

All front jaws are made of high grade semi-steel and the back jaws of best quality gray iron. Some sizes have steel plates inserted in the back jaws. These are particularly desirable for jewelers, die makers and key filers who will use the vise for clamping a great many pieces of the same size.

The screws are turned from bar steel and have lathe cut threads.

All Champion Vises are finished in maroon baking enamel and the jaws, screws, slides and anvils are highly polished.

Sizes 112 to 118, inclusive, are packed two in a cardboard box; all other sizes in individual boxes.

**PRICE LIST—Clamp Base**

No.		Size of Jaw	Weight, each	Price, per doz.
112....	Steel front jaw.....	1 $\frac{1}{2}$ in.....	1 $\frac{1}{4}$ lbs.....	\$4.50
113....	Steel front jaw.....	1 $\frac{3}{4}$ ".....	1 $\frac{3}{4}$ ".....	6.50
114....	Steel front jaw.....	2 ".....	2 $\frac{1}{2}$ ".....	9.00
115....	Steel front jaw.....	2 $\frac{1}{4}$ ".....	2 $\frac{3}{4}$ ".....	12.00
118....	Steel front jaw.....	2 $\frac{1}{2}$ ".....	3 $\frac{1}{4}$ ".....	18.00
121....	Steel front jaw.....	3 ".....	6 $\frac{3}{4}$ ".....	24.00

**Swivel Base**

No.		Size of Jaw	Weight, each	Price, per doz.
125....	Steel jaws.....	2 in.....	3 lbs.....	\$15.00
127....	Steel jaws.....	2 $\frac{1}{2}$ ".....	4 $\frac{1}{4}$ ".....	24.00
129....	Steel jaws.....	3 ".....	8 ".....	36.00



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## BONNEY LEHIGH VISES



CLAMP BASE PATENTED



Bonney Lehigh Vises are manufactured along the same general lines as the heavy type of Machinists' Box Slide Vises. They are small in size and designed particularly for tool makers, jig makers, die sinkers, jewelers and all practical mechanics. Because of the heavy construction, firmness, stability and high duty gripping power, they are particularly recommended for delicate and precision work.

No sacrifices have been made in weight where metal should be used to increase the strength and rigidity. The jaws are heavy, and the anvil has a good striking surface. The main screw is strongly made from bar steel, lathe threaded. The clamp is protected with a ball and socket cap (a patented feature with us), and a good thread screw.

Lehigh Vises are made both with iron jaws and steel inserted jaws. The steel inserts are particularly strong and heavy, and are carefully hardened. The finish of the Vises is dark green enamel, with the jaws, screws, slides and anvil highly polished.

No.	Description	Size of Jaw	Weight, each	Price, per doz.
1006...	Plain Iron Jaws, Clamp Base . . . . .	1 $\frac{1}{2}$ in . . . . .	3 lbs . . . . .	\$12.00
1007...	Plain Iron Jaws, Clamp Base . . . . .	1 $\frac{1}{4}$ " . . . . .	3 $\frac{1}{4}$ " . . . . .	15.00
1008...	Plain Iron Jaws, Clamp Base . . . . .	2 " . . . . .	4 " . . . . .	18.00
1010...	Plain Iron Jaws, Clamp Base . . . . .	2 $\frac{1}{2}$ " . . . . .	5 $\frac{1}{2}$ " . . . . .	30.00
1012...	Plain Iron Jaws, Clamp Base . . . . .	3 " . . . . .	9 $\frac{3}{4}$ " . . . . .	36.00
1107...	Hardened Steel Jaws, Clamp Base . . . . .	1 $\frac{1}{2}$ " . . . . .	3 $\frac{1}{4}$ " . . . . .	18.00
1108...	Hardened Steel Jaws, Clamp Base . . . . .	2 " . . . . .	4 " . . . . .	21.00
1110...	Hardened Steel Jaws, Clamp Base . . . . .	2 $\frac{1}{2}$ " . . . . .	5 $\frac{1}{2}$ " . . . . .	33.00
1112...	Hardened Steel Jaws, Clamp Base . . . . .	3 " . . . . .	9 $\frac{3}{4}$ " . . . . .	42.00
1210...	Hardened Steel Jaws, Swivel Base . . . . .	2 $\frac{1}{2}$ " . . . . .	6 " . . . . .	36.00
1212...	Hardened Steel Jaws, Swivel Base . . . . .	3 " . . . . .	10 $\frac{1}{2}$ " . . . . .	48.00

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## "BONNEY" VISES

Trade Mark Registered



Bonney Vises are made for general household and amateur uses. They are lower priced than the Champion Vises, but are made with the same care and attention to fit and finish as our more expensive lines.

The jaws are made of best grade gray iron and the main and thumb screws are cast semi-steel with threads that are all cut, not cast.

The head and collar is of a single piece with the main screw and will not wear out or pull off.

Bonney Vises are finished in black baking enamel with polished screws, jaws and anvils.

All sizes are packed two in a cardboard box.

### PRICE LIST

No.		Size of Jaw	Weight, each	Price per doz.
1....	Iron jaws.....	1 $\frac{1}{2}$ in.....	1 $\frac{1}{2}$ lbs.....	\$3.75
1 $\frac{1}{2}$ ...	Iron jaws.....	1 $\frac{3}{4}$ ".....	1 $\frac{1}{2}$ ".....	5.00
2....	Iron jaws.....	2 ".....	1 $\frac{3}{4}$ ".....	6.50
2 $\frac{1}{2}$ ...	Steel jaws.....	2 ".....	2 $\frac{1}{2}$ ".....	9.75
3....	Steel jaws with swivel jaw.....	2 $\frac{1}{4}$ ".....	2 $\frac{1}{4}$ ".....	12.00
3 $\frac{1}{2}$ ...	Iron jaws.....	2 $\frac{1}{4}$ ".....	2 $\frac{1}{4}$ ".....	8.50
4....	Iron jaws.....	2 $\frac{3}{4}$ ".....	4 $\frac{1}{2}$ ".....	16.50
7....	Steel jaws with swivel attachment.....	2 $\frac{3}{4}$ ".....	4 $\frac{1}{2}$ ".....	22.50

These vises are packed in sets when so desired, both in various sizes and patterns of this line and also combined with Champion Vises.



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## BONNEY STANDARD VISSES



Bonney Standard Vises are packed two in cardboard box. They are finished in black bakig enamel with polished screws, jaws and anvils.

## LIST PRICE

No.	Description	Size of Jaw	Weight, each	Price, per doz.
00 . . .	Iron jaws . . . . .	1"	1 lb. . . . .	\$ 3.25
01 . . .	Iron jaws . . . . .	1½"	1½ " . . . . .	3.75
02 . . .	Iron jaws . . . . .	2"	2¼ " . . . . .	6.50
02½ . . .	Iron jaws . . . . .	2½"	4 " . . . . .	12.00

## BONNEY STANDARD VISSES



## Set No. 10

Bonney Standard Vises are similar to Bonney Vises illustrated on page 47. There are only four sizes of this pattern. Two of these sizes are not made in Bonney Vises. These are No. 00 and No. 02½. The No. 00 has a one-inch jaw and the No. 02½ a 2½-inch jaw. This is an ideal assortment for the small retail store and is particularly attractive for wholesalers.

## LIST PRICE SET No. 10

Quantity	No.	Description	Size of Jaw	Weight, each	Price
6 . . . . .	00 . . . . .	Iron jaws . . . . .	1"	1 lb. . . . .	\$1.63
6 . . . . .	01 . . . . .	Iron jaws . . . . .	1½"	1½ " . . . . .	1.87
3 . . . . .	02 . . . . .	Iron jaws . . . . .	2"	2¼ " . . . . .	1.63
2 . . . . .	02½ . . . . .	Iron jaws . . . . .	2½"	4 " . . . . .	2.00
Sample Stand . . . . .					1.12
Sample Stand and 17 Vises . . . . .					\$8.25

## EXPORT PACKING OF No. 10 SETS

No. sets to case	Net Wt. per case	Gross Wt. per case	Measurements
1	31¾ lbs.	38 lbs.	13¾ x 10 x 6½



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## "CHAMPION" VISES, IN SETS

Trade Mark Registered.



### Set No. 5

Set No. 5 contains twelve Champion Vises. All except one are of the clamp base pattern. They are all warranted.

This is an excellent assortment for a small store which has a trade almost exclusively for high grade tools.

Each set packed in a strong case ready for reshipment.

### LIST PRICE, SET No. 5

Quantity	No.	Description	Size of jaw	Weight each	Price
2.....	112.....	Steel front jaw.....	1 $\frac{1}{2}$ inches..	1 $\frac{1}{4}$ lbs.	\$0.76
2.....	113.....	Steel front jaw.....	1 $\frac{3}{4}$ " ..	1 $\frac{3}{4}$ "	1.08
3.....	114.....	Steel front jaw.....	2 "	2 $\frac{1}{2}$ "	2.25
1.....	115.....	Steel front jaw.....	2 $\frac{1}{4}$ " ..	2 $\frac{3}{4}$ "	1.00
1.....	118.....	Steel front jaw.....	2 $\frac{1}{2}$ " ..	3 $\frac{1}{4}$ "	1.50
2.....	121.....	Steel front jaw.....	3 "	6 $\frac{1}{4}$ "	4.00
1.....	127.....	Steel jaws and swivel base.....	2 $\frac{1}{2}$ " ..	4 $\frac{1}{4}$ "	2.00
	Sample stand.....				1.16
	Sample stand and 12 Vises, price per set.....				\$13.75

### EXPORT PACKING OF No. 5 SET

No. sets to case	Net Wt. per ease	Gross Wt. per case	Measurements
1	45 lbs.	59 lbs.	30 $\frac{1}{4}$ x 12 $\frac{1}{2}$ x 6



TRADE

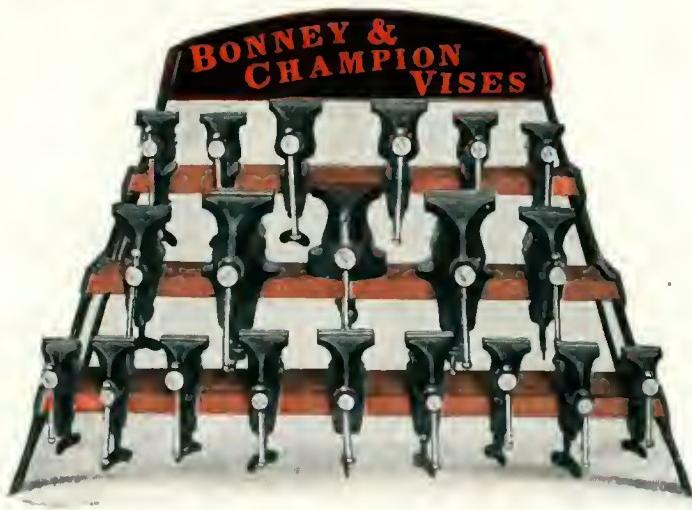
**BONNEY**

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**"BONNEY" AND "CHAMPION" VISES, IN SETS**

Trade Mark Registered

Trade Mark Registered

**Combination Set No. 3**

Combination Sets No. 3 and No. 4 are designed for retail stores having a demand for tools of various grades. These sets contain both Bonney and Champion Vises. The Bonney Vise very low in price and unwarranted, and the Champion Vise slightly higher in price and thoroughly warranted.

**LIST PRICE, SET No. 3**

Quantity	No.	Description	Size of Jaw	Wt. each	Price
6.....	1 .....	Iron jaws (Bonney) .....	1 $\frac{1}{2}$ inches..	1 $\frac{1}{2}$ lbs.	\$1.88
3.....	1 $\frac{1}{2}$ .....	Iron jaws .....	1 $\frac{1}{4}$ " "	1 $\frac{1}{2}$ "	1.25
3.....	2 .....	Iron jaws .....	2 " "	1 $\frac{1}{4}$ "	1.63
2.....	2 $\frac{1}{2}$ .....	Steel jaws .....	2 " "	2 $\frac{1}{2}$ "	1.63
2.....	3 $\frac{1}{2}$ .....	Iron jaws .....	2 $\frac{1}{4}$ " "	2 $\frac{1}{4}$ "	1.42
4.....	4 .....	Iron jaws .....	2 $\frac{3}{4}$ " "	4 $\frac{1}{2}$ "	5.50
3.....	112.....	Steel front jaw (Champion)	1 $\frac{1}{2}$ " "	1 $\frac{1}{2}$ "	1.13
2.....	113.....	Steel front jaw .....	1 $\frac{3}{4}$ " "	1 $\frac{1}{4}$ "	1.08
6.....	114.....	Steel front jaw .....	2 " "	2 $\frac{1}{2}$ "	4.50
1.....	115.....	Steel front jaw .....	2 $\frac{1}{4}$ " "	2 $\frac{1}{4}$ "	1.00
2.....	118.....	Steel front jaw .....	2 $\frac{1}{2}$ " "	3 $\frac{1}{4}$ "	3.00
2.....	121.....	Steel front jaw .....	3 " "	6 $\frac{1}{2}$ "	4.00
1.....	125.....	Steel jaws and swivel base..	2 " "	3 "	1.25
1.....	129.....	Steel jaws and swivel base..	3 " "	8 "	3.00
Sample stand.....					1.73
Sample stand and 38 Vises, price per set.....					\$34.00

**EXPORT PACKING OF No. 3 SET**

No. sets to case	Net Wt. per case	Gross Wt. per case	Measurements
1	118 lbs.	134 lbs.	22 $\frac{1}{2}$ x 12 x 9 $\frac{3}{4}$



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**"BONNEY" AND "CHAMPION" VISES, IN SETS**

Trade Mark Registered

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**Combination Set No. 4**

Set No. 4 is particularly recommended for medium size stores. The stand used in connection with this set takes up counter space of only 18 inches x 11 inches and is very attractive in appearance.

The use of this stand will not only increase vise sales but also add a very ornamental display fixture.

**LIST PRICE, SET No. 4**

Quantity	No.	Description	Size of Jaw	Wt. each	Price
6.....	1.....	Iron jaws (Bonney) .....	1 $\frac{1}{2}$ inches..	1 $\frac{1}{4}$ lbs.	\$ 1.88
4.....	1 $\frac{1}{2}$ ....	Iron jaws " .....	1 $\frac{3}{4}$ " ..	1 $\frac{1}{2}$ "	1.67
2.....	2.....	Iron jaws " .....	2 " ..	1 $\frac{1}{4}$ "	1.08
2.....	3 $\frac{1}{2}$ ....	Iron jaws " .....	2 $\frac{1}{2}$ " ..	2 $\frac{3}{4}$ "	1.42
1.....	4.....	Iron jaws " .....	2 $\frac{1}{4}$ " ..	4 $\frac{1}{2}$ "	1.38
6.....	112....	Steel front jaw (Champion)	1 $\frac{1}{2}$ " ..	1 $\frac{1}{4}$ "	2.25
2.....	113....	Steel front jaw " .....	1 $\frac{3}{4}$ " ..	1 $\frac{1}{4}$ "	1.08
2.....	114....	Steel front jaw " .....	2 " ..	2 $\frac{1}{2}$ "	1.50
1.....	115....	Steel front jaw " .....	2 $\frac{1}{2}$ " ..	2 $\frac{3}{4}$ "	1.00
1.....	118....	Steel front jaw " .....	2 $\frac{1}{2}$ " ..	3 $\frac{1}{4}$ "	1.50
Sample stand.....					1.24
Sample stand and 27 Vises, price per set.....					\$16.00

**EXPORT PACKING OF No. 4 SET**

No. sets to case	Net Wt. per case	Gross Wt. per case	Measurements
1	59 lbs.	82 lbs.	22 $\frac{1}{2}$ x 15 $\frac{3}{4}$ x 6 $\frac{3}{4}$



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**"BONNEY" VISES, IN SETS**  
Trade Mark Registered



**Set No. B-2**

This set is for use in small stores where a small stock of only a few sizes is carried. It is a particularly desirable assortment for wholesalers as it is packed ready for reshipment in a strong case, thus simplifying storage and reducing shipping expenses.

For replenishing the retail merchant's stock it is necessary for the wholesaler to have on hand a supply of only five sizes of Vises.

**LIST PRICE, SET No. B-2**

Quantity	No.	Description	Size of jaw	Wt. each	Price
3 each . . . . .	1 . . . . .	Iron jaws . . . . .	1½ inches . . .	1¼ lbs. . . . .	\$ 0.94
4 " " " " "	2 " " " " "	Iron jaws . . . . .	2 " " " " "	1¾ " " " " "	2.16
2 " " " " "	3 . . . . .	Steel jaws and swivel jaw . . . . .	2½ " " " " "	2½ " " " " "	2.00
2 " " " " "	4 . . . . .	Iron jaws . . . . .	2¾ " " " " "	4½ " " " " "	2.74
1 " " " " "	7 . . . . .	Steel jaws and swivel jaw . . . . .	2¾ " " " " "	4½ " " " " "	1.87
Sample stand . . . . .					1.29
Sample stand and 12 Vises, price per set . . . . .					\$11.00

**EXPORT PACKING OF No. B-2 SET**

No. sets to case	Net Wt. per case	Gross Wt. per case	Measurements
1	38 lbs.	60 lbs.	21½ x 15¾ x 6½



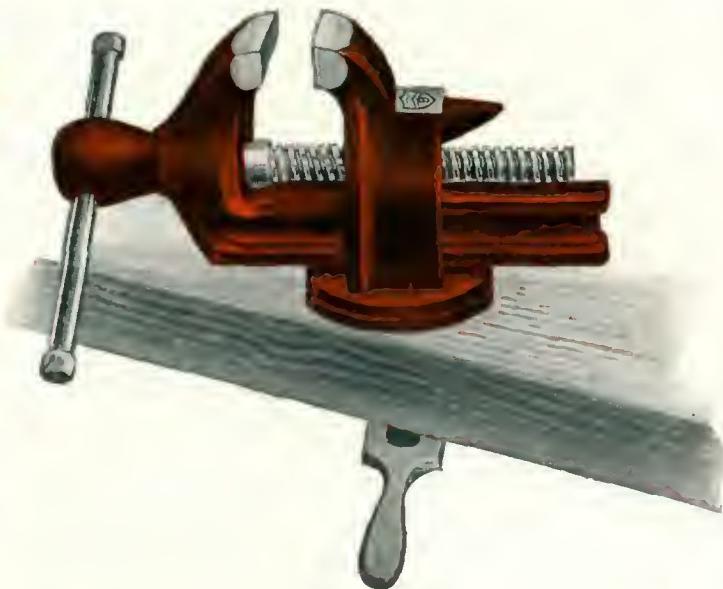
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## BONNEY IMPROVED GARAGE VISES LARGE AND HEAVY FOR HARD USAGE



Swivel Base

These Vises have hardened tool steel jaws and swivel bases. The jaws have a particularly large range of openings. They are all machined accurately to a close fit and have steel lathe cut screws. The swivels are operated by a malleable iron handle which works on a nut. The adjustment of the swivel base can be made in any position and is accurate and positive.

The vises are finished in a bright maroon enamel and the jaws and anvils are highly polished.

No.	Length of Jaw	Opens, inches	Weight	Price, each
250	2½	3½	10 lbs.	\$2.25
300	3	4	16 "	3.50
350	3½	4½	21 "	4.75
400	4	5	26½ "	6.00

When desired, these vises are packed one in a wooden box, ready for reshipment.

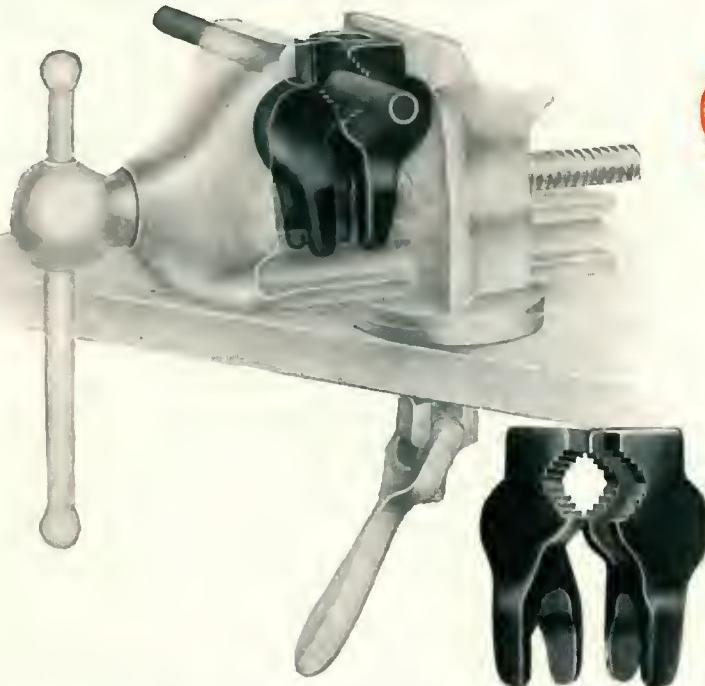


BONNEY

MADE IN U.S.A.



## PIPE HOLDING ATTACHMENTS FOR BONNEY IMPROVED GARAGE VISES



In connection with the Garage Vises, illustrated and described on the preceding page, we have made a very important addition which adds greatly to the usefulness of the vise, viz., a line of pipe-holding attachments that will take pipe and round iron in sizes shown on the table given below.

These attachments, which are shown in the illustration, are semi-steel castings of just the right mixture for the use to which the attachments are put.

As there is a definite size and shape for each size vise, they can be easily and quickly inserted and removed from the vise.

The shape of the jaw is such that the rod or pipe is held rigid without marring the surface.

The usefulness of these attachments are self-evident, and every order for Garage Vises should carry with it an order for Pipe Attachments, as they will prove a splendid selling feature with the trade.

### SCHEDULE OF PRICES AND SIZES

No.	Takes Pipe	Takes Round Iron	Price each
250PA	1" to 1½"	1" to 1¾"	\$0.60
300PA	1" to 1½"	1" to 2"	.90
350PA	1" to 2"	1" to 2½"	1.25
400PA	1" to 2½"	1" to 2¾"	1.50

Pages marked with the ace trade mark show tools designed particularly for automotive purposes



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## THE GIPSY COMBINATION ANVIL VISE AND DRILLING MACHINE



(Patented)

The Gipsy Vise combines four different tools—Anvil, Straight Jaw Vise, Pipe Vise and Drill Press. It is the handiest tool made, for general repair work on the farm or ranch. Also a very useful tool for general repair work in garages.

The Anvil is 7 inches high, 12 inches long and has 4 inch face. The Vise Jaws are  $5\frac{1}{2}$  inches wide and open 8 inches. The Pipe Jaws have a capacity from  $\frac{1}{2}$  inch to 2 inch pipe. The Drill Spindle is made for square shank drills and can be removed when not in use.

Price Each - - - - - \$10.00

Weight each, 52 lbs.

Finished in green enamel.

### EXPORT PACKING

No. to Case	Net Weight	Gross Weight	Measurements
2	10 $\frac{1}{4}$ lbs.	125 lbs.	22" x 9 $\frac{1}{2}$ " x 15 $\frac{1}{2}$ "



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